











New all-in-one hardware

New microphone faster data transfer

The new version of the SV 307A has an improved external housing for operation in conditions of high sunlight exposure and low temperatures, a high-speed 4G modem and a unique microphone in the MEMS technology. The all-in-one hardware also includes a large internal battery that can power the system for 5 days with a modem turned on.

Patented system check

Dual and remote measurement validation

The patented system check uses MEMS microphones located very close to each other. In case the levels measured by the reference microphone and the measurement microphones differ by more than a particular threshold, the SV 307A system check triggers an alarm. Additionally, an inbuilt reference sound source producing level of 100 dBA at 1 kHz can be used for manual or automated system check.

Noise, meteo, dust

Smart monitoring and advanced triggering

The instrument is designed to monitor noise levels and their spectra, record and audio signal and GPS localization. All meteorological values such as wind speed, wind direction, rain, humidity etc. or dust particles PM2.5 or PM10 can be stored together with the noise data when external sensors are connected.



Key Functions



Class 1 accuracy and precission

The SV 307A is a new class 1 noise monitoring station designed for permanent noise monitoring. With the improved housing, the SV 307A has the superior acousitics characteristics.



Life-time warranty on microphone

The SV 307A is equipped with a state-of-the-art MEMS microphone with a life-time warranty.



Real-time frequency analysis

The 1/3 octave function allows the determination of the influence of high or low frequencies on overall values. Functions can be activated at any time by ordering the activation code.



Triggered audio recording

Audio recording is synchronized with a noise time-history and it can be opened and played back in PC software enabling noise source recognition. Audio recording can be triggered on threshold or time. It can be activated at any time by ordering the activation code.



Audio streaming live listening

The SV 307A is capable of streaming the live audio to the SvanNET. The function works independently of the wav audio recording and can be activated as the SvanNET license.



GPS localisation and synchronization

The accurate GPS module provides information on the localization as well as measurement time synchronization.



Low power consumption

Low power consumption is the key functionality when it comes to permanent noise monitoring. It means lower cost of running the system as well as longer time of battery operation - up to 5 days with modem transmission.

PC software



SvanNET enables a plug & play connection to the Internet and easy management of measurement projects. Regardless of the SIM card type, Public or Private, SvanNET will establish connection, giving full access to the measurement data via web browser.



SvanPC++ is a PC software supporting functions such as measurement data downloading from instruments to PC, measurement setups creation, basic Leq/RMS recalculation, measurement results in text, table and graphical form of presentation, export data to a spread sheet or text editor applications.

Optional accessories



SP 276 Weather Station



SB 371 Solar Panel



SB 275 External 33 Ah Battery



SV 36 Class 1 Sound Calibrator 94 dB/114 dB



SF 307_3 License of 1/1 & 1/3 octave



SF 307_15 License of audio recording



SVANNET_1A SvanNET Projects subscription – 1 year



SVANNET_LISTENING_A
On-line audio listening
subscription – 1 year





Technical Specifications

Standards	Class 1: IEC 61672-1:2013, Class 1: IEC 61260-1:2014
Weighting Filters	A, B, C, Z, LF
Time Constants	Slow, Fast, Impulse
RMS Detector	Digital True RMS detector with Peak detection, resolution 0.1 dB
Microphone	Patented MEMS based design microphone ST 30A in 1/2" housing
Preamplifier	Integrated
Linear Operating Range	30 dBA RMS ÷ 128 dBA Peak (in accordance to IEC 61672)
Dynamic Measurement Range	23 dBA RMS ÷ 128 dBA Peak (typical from noise floor to the maximum level)
Internal Noise Level	Less than 23 dBA RMS
Dynamic Range	>100 dB
Frequency Range	20 Hz ÷ 20 kHz
Meter Mode Results	Elapsed time, Lxy, Lxeq (LEQ), Lxpeak (PEAK), Lxymax (MAX), Lxymin (MIN), LxyE (SEL), 2 x LR (ROLLING LEQ),10 x LN (LEQ STATISTICS), Lden, LEPd, Ltm3, Ltm5, GPS coordinates
Measurement Profiles	Simultaneous measurement in three profiles with independent set of filters (x) and detectors (y)
Statistics	Ln (L1-L99), complete histogram in meter mode
Data Logger	Logging of summary results (SR) and spectra data with interval step down to 1 s and time history (TH) of selected parameters with shorter interval step down to 100 ms
1/1 Octave Analysis (option)	Real-time analysis meeting Class 1 requirements of IEC 61260, centre frequencies from 31.5 Hz to 16 kHz
1/3 Octave Analysis (option)	Real-time analysis meeting Class 1 requirements of IEC 61260, centre frequencies from 20 Hz to 20 kHz
Audio Recording (option)	Time domain records to wav file format on demand with selectable bandwidth and recording period
Remote System Check	Real-time system check and Built-in sound source producing level of 100 dB at 1 kHz
GPS	Time synchronization and localization
Memory	MicroSD card 32 GB (removable & upgradeable up to 128 GB)
Display and Keyboard	OLED colour display 128 x 160 px and 10 push-button keyboard
Communication Interfaces	USB 2.0 4G modem RS 232 for meteo module or dust monitor
Ingress Protection Rating	IP 64
Power Supply	Li-lon rechargeable battery (non-removable) Operation time on battery (7.2 V / 10 Ah): Modem off Modem on Solar Panel (not included) AC power supply (included) External DC source (not included) External DC source (not included) Lip to 6 days up to 6 days up to 5 days (depends on modem usage) MPPT voltage 17.0 V ÷ 20.0 V Input 100 ÷ 240 VAC output +15 VDC 2.5 A, IP 67 housing voltage range 10.5 V ÷ 24 V e.g. 12 V or 24 V accumulator
Environmental Conditions	Temperature from -20 °C to 60 °C Humidity up to 95 % RH, non-condensed
Dimensions	680 mm length; 80 mm diameter excluding windscreen (windscreen diameter 130 mm)
Weight	Approx. 2.2 kg

The policy of our company is to continually innovate and develop our products. Therefore, we reserve the right to change the specifications without prior notice.