

# SV 271 LITE

## Noise Monitoring Station



**SVANTEK**  
monitoring systems

# SV 271 LITE Noise Monitoring Station

SV 271 LITE is a portable monitoring system housed in a waterproof case dedicated for periodic **OUTDOOR** measurements. The low power consumption enables continuous **OPERATION UP TO 3 WEEKS**. The operation time can be even tripled with the external battery (SB 272).

The station offers **AUDIO EVENTS** recording and frequency analysis in **1/1 or 1/3 OCTAVES** for noise sources recognition.

The station is based on the **SVAN 971** which can be easily removed from the case and used as a hand-held sound level meter.

SVAN 971 is a Class 1 **TYPE APPROVED** sound level meter in accordance with the IEC 61672-1 standard.

The **TIME-HISTORY** of results such as Leq, Max, Min and Peak with two simultaneous logging steps is saved on a 8 GB microSD card (upgradeable up to 128 GB).

The **EASE OF USE** and fast configuration are ones of the biggest advantages of SV 271.

The light-weight microphone protection kit gives an easy access for calibration with an acoustic calibrator. Once the calibration signal is detected, the system starts the **CALIBRATION AUTOMATICALLY**.

The **LARGE WINDSCREEN** is highly efficient in the reduction of a wind noise effects even at high wind speeds.

Military standard **CONNECTORS** provide reliable, robust and waterproof cable connections.

Station uses a **WATERPROOF DC POWER SUPPLY** that is designed for outdoor use.

Station can be powered from the internal battery or external DC power supply and is ready for direct connection of a **SOLAR PANEL**. The powering is managed by the intelligent charging unit.



## About SV 271 LITE

SV 271 LITE is an outdoor monitoring system based on the type-approved SVAN 971 Class 1 sound level meter that can be easily removed from the case and used as hand-held sound level meter.

The IP 65-rated case contains a lead-acid battery which operating life of 21 days can be easily extended by connecting an external battery or a solar panel. The intelligent charging unit enables use of a solar panel without expensive controllers or heavy batteries. The case is fitted with very robust, waterproof connectors (military standard) and is supplied with an IP 65 external power supply.

The light-weight microphone protection kit can be easily installed on a mast with standard mounting threads.

All accessories fit conveniently into a second carrying case. The system provides broad-band results such as Leq, Max, Min and Peak with all standard weighting filters together with an incredible time-history logging feature with two adjustable logging steps.

For noise sources recognition the SV 271 LITE offers options for Audio Events recording and frequency analysis in 1/1 or 1/3 octave bands.



## What's inside the SV 271 LITE?

The SV 271 LITE kit consists of two carrying cases. The main unit is a waterproof carrying case with internal 17 Ah battery and internal charging unit supporting powering from external DC or solar panel. The SVAN 971 Class 1 sound level meter is installed inside. The outdoor power supply and outdoor microphone kit are packed inside the second transportation case. The kit includes license for SvanPC++ software and has its factory calibration certificate and 36 months warranty card.



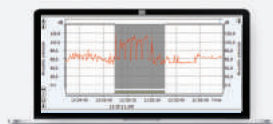
## PC Software

**SvanPC++** is a PC software providing 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 spread sheet or text editor applications.

## Optional functions



The option for **1/1 or 1/3 OCTAVE REAL-TIME ANALYSIS** allows the analysis of the noise frequency contents. It can be activated at any time by ordering an activation code.



The option of **AUDIO EVENT RECORDING** works during measurement and is logged in parallel to time history. Once downloaded to PC it can be played back. Settings such as triggers or recording time are adjustable. It can be activated at any time by ordering an activation code.



**SvanPC++ ENVIRONMENTAL MEASUREMENTS** module is designed for post-processing of data recorded by monitoring station. The module offers a powerful calculator and an automated noise event finder for noise source identification. SvanPC++\_EM allows to combine and compare data from multiple measurements as well as create and save reports in MS Word™ templates. The module can be activated at any time by ordering the activation code or hardware key.

## Optional accessories to SV 271 LITE



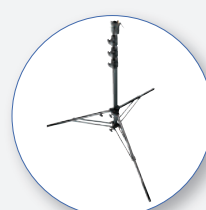
SV 36  
Class 1 Acoustic  
Calibrator  
94 dB / 114 dB at  
1 kHz



SB 271  
Solar Panel  
to Monitoring  
Station



SB 272  
External 33 Ah  
Battery  
to Monitoring  
Station



SA 206  
Mast for  
Microphone  
Protection Kit





## SV 271 Technical Specifications

Standards	Class 1: IEC 61672-1:2013; Class 1: IEC 61260-1:2014
Weighting Filters	A, B, C, Z
Time Constants	Slow, Fast, Impulse
RMS Detector	Digital True RMS detector with Peak detection, resolution 0.1 dB
Microphone Protection Kit	SA 271 outdoor protection kit (IP 65) with an extension cable
Microphone	ACO SV 7052E, 35 mV/Pa, prepolarised 1/2" condenser microphone
Preamplifier	SV 18 detachable
Linear Operating Range	25 dBA RMS ÷ 140 dBA Peak (in accordance to IEC 61672)
Dynamic Measurement Range	15 dBA RMS ÷ 140 dBA Peak (typical from noise floor to the maximum level)
Internal Noise Level	less than 15 dBA RMS
Dynamic Range	>110 dB
Frequency Range	10 Hz ÷ 20 kHz
Meter Mode Results	Elapsed time, L <sub>xy</sub> (SPL), L <sub>x</sub> eq (LEQ), L <sub>x</sub> peak (PEAK), L <sub>x</sub> ymax (MAX), L <sub>x</sub> ymin (MIN), LR (ROLLING LEQ OPTION), Ovl (OVERLOAD), L <sub>x</sub> ye (SEL), LN (LEQ STATISTICS), L <sub>den</sub> , LEPd, L <sub>tm</sub> 3, L <sub>tm</sub> 5
Statistics	Simultaneous measurement in three profiles with independent set of filters (x) and Detectors (y)
Audio Recording <sup>1</sup> (optional)	L <sub>n</sub> (L <sub>1</sub> -L <sub>99</sub> ), complete histogram in meter mode
1/1 Octave Analysis <sup>1</sup> (optional)	Audio events recording, trigger and continuous mode, 12 kHz sampling rate, wav format
1/3 Octave Analysis <sup>1</sup> (optional)	Real-time analysis meeting Class 1 requirements of IEC 61260, center frequencies from 31.5 Hz to 16 kHz
Data Logger	Real-time analysis meeting Class 1 requirements of IEC 61260, center frequencies from 20 Hz to 20 kHz
Memory	Time-history logging of summary results, spectra with adjustable double logging steps down to 100 ms
Power Supply	MicroSD card 8 GB (removable & upgradeable up to 128 GB)
	Waterproof DC power supply 15 V , 60 W
	(acceptable voltage range 11 V ÷ 30 V)
	Built-in battery 17 Ah / 12 V
	Secondary external battery 33 Ah / 12 V (optional)
	Solar panel (optional)
Operating Time on Battery	Up to 21 days <sup>2</sup>
	Test conditions: meter mode, display dimmed,
	100 ms time-history logger, continuous event recording
Environmental Conditions	Temperature -10 °C ÷ +50 °C
Dimensions	305 x 270 x 194 mm (without cables)
Weight	Approximately 9 kg including battery (without accessories)

<sup>1</sup>function parallel to the meter mode

<sup>2</sup>depending on configuration and environmental conditions

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.

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**SVANTEK** Sp. z o. o.  
ul. Strzygłowska 81, 04-872 WARSAW, POLAND  
phone/fax (+48) 22 51 88 320, (+48) 22 51 88 312  
<http://www.svantek.com> e-mail: [office@svantek.com.pl](mailto:office@svantek.com.pl)