

SVAN 971

Miniature SLM & Analyser

971 is an extremely small Type 1 IEC 61672 Sound Level Meter and 1/1 & 1/3 octave analyser. Instrument presents the State of the Art technological design bringing such unprecedented level of the SLM integration.

New user interface of this instrument makes measurements configuration as easy as it is possible. This all makes that SV 971 is an ideal choice for industrial hygiene noise measurements, short period environmental noise measurements, acoustics consultancies, technical engineers dealing with noise issues and general acoustics noise measurements..

SVAN 971 provides broad band results with all required weighting filters plus 1/1 octave & 1/3 octave spectra .

Instrument offers huge time history logging capability providing broad band results and spectra with adjustable double (long and short) logging steps. Audio recording on trigger complete logging functionality. Data are stored on

a μ SD card and can be easily downloaded to PC (with provided SvanPC++ software) over USB or RS 232 interfaces.

Instrument can be easily calibrated in field using acoustic calibrator. Built-in algorithm automatically activating calibration process whenever acoustic calibrator is installed on microphone and logged calibration history.

Thanks to robust (IP65) and pocket size casing,, this instrument is an excellent tool for anyone who deals with acoustic measurements

SVAN 971 comes with SvanPC++ software for data download, visualisation, basic post-processing and exports to commonly used applications. Additionally dedicated software package for environmental monitoring (SvanPC++_EM) is also available. This module support measurement data management, advanced data processing & analysis, visualisation and automated reporting.

FEATURES

- Sound Level Meter in extremely pocket size casing
- Noise measurements meeting Type 1 IEC 61672-1
- Single measurement range
- 1/1 & 1/3 octave real-time analysis
- Dosimeter function
- Audio events recording (voice recording)
- Statistical analysis
- Time-history with two logging steps
- Automated calibration start
- Free-field & diffuse-field measurements
- Integration time programmable up to 24 h
- Setup editor available with SvanPC++ software
- Ready to use with predefined setups and reports in H&S mode of SvanPC++ software
- Advanced modules for data processing and reporting SvanPC++_DM and SvanPC++_EM
- Super contrast color OLED display
- Wide range of temperature operating
- Protection rating IP 65
- Very handy, light weight and robust pocket size case
- Easy and friendly user interface



TECHNICAL SPECIFICATIONS

SOUND LEVEL METER

| | |
|------------------------|---|
| Standards | Type 1: IEC 61672-1:2002 |
| Weighting Filters | A, C, Z |
| Time constants: | Slow, Fast, Impulse |
| RMS Detector | Digital True RMS detector with Peak detection, resolution 0.1 dB |
| Microphone | ACO 7052E, 38 mV/Pa, prepolarised 1/2" condenser microphone |
| Calibration | Automatic calibration @ 114dB/1kHz |
| Preamplifier | Integrated |
| Measurement Range | 15 dBA RMS ÷ 140 dBA Peak |
| Internal Noise Level | less than 15 dBA RMS |
| Dynamic Range | >120 dB |
| Frequency Range | 10 Hz ÷ 20 kHz, |
| Meter Mode Results | SPL, L _{eq} , SEL, L _{den} , L _{tm3} , L _{tm5} , L _{Max} , L _{Min} , L _{Peak} plus "running Leq" up to 60minute. Simultaneous measurement in three profiles with independent set of filters and detectors |
| Statistics | L _n (L ₁ -L ₉₉), complete histogram in meter mode |
| Data Logger | Time-history logging of summary results, spectra with logging step down to 1 second and time history of selected parameters with short logging step down to 10 millisecond |
| Audio Events Recording | Audio records to time history data or wav format on demand with selectable band and recording period |

DOSIMETER

| | |
|------------------------|---|
| Dosimeter Mode Results | SPL, L _{eq} , SEL, Peak, Dose, D-8h, Lav, SEL8, PSEL, E, E-8h, TWA, ' Peak Center' and more Measurements simultaneous to the 1/1 octave analysis. Exchange Rate 3, 4, 5, 6 |
|------------------------|---|

SOUND ANALYSER

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|---------------------|---|
| 1/1 Octave Analysis | Real-time analysis meeting Type 1 requirements of IEC 61260, centre frequencies from 31.5 Hz to 16 kHz (option) available simultaneously with three profiles for broadband measurements (SLM), time history logging and audio recording |
| 1/3 Octave Analysis | Real-time analysis meeting type 1 requirements of IEC 61260, centre frequencies from 25 Hz to 20 kHz (option) available simultaneously with three profiles for broadband measurements (SLM), time history logging and audio recording |

BASIC DATA

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|---------------------------|---|---|
| Ingress Protection Rating | IP 65 (excluding microphone) | |
| Input | Preamplifier (60 UNS thread) | |
| Memory | Micro SD card 8 GB (removable & upgradeable) | |
| Display | Colour 96 x 96 pixels OLED type | |
| Keyboard | 9 push buttons | |
| Communication interfaces | USB client , Serial Port RS 232 cable (optional) | |
| Power Supply | Four AAA alkaline or rechargeable NiMH batteries USB interface Environmental Conditions | operation time 16h – 24h (depending on usage) 100 mA HUB Temperature from -20 °C to 50 °C |
| Physical Characteristics | Humidity | up to 95 % RH, non-condensed |
| | Dimensions | 225 mm x 56 x 20 mm (including microphone and preamplifier) |
| | Weight | Approx. 225 grams with batteries |

* In meter mode with time history logging step 1 second

Continuous product development and innovation are the policy of our company. Therefore, we reserve the right to change the specifications without prior notice.



SVANTEK

a continuous innovation

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ISO 9001

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