

# SVAN 955

## Low Cost Sound Level Meter & Analyser

The SVAN 955 is all digital, Type 1 sound level meter. Instrument is intended to general acoustic measurements, environmental noise monitoring, occupational health and safety monitoring.

Three acoustic profiles allow parallel measurements with independently defined filters and RMS detector time-constants. Each profile provides significant number of results (like  $L_{eq}$ ,  $L_{Max}$ ,  $L_{Min}$ ,  $L_{Peak}$ ,  $Spl$ ,  $SEL$  etc.). Using computational power of its digital signal processor the SVAN 955 instrument can, simultaneously to the meter mode, perform real-time 1/1 octave analysis including statistical calculation. Advanced time-history logging for each profile provides complete information about measured signal in non-volatile 16 MB internal memory or external USB Memory Stick and can be easy downloaded to any PC using USB interface and SvanPC+ software.

Acoustic dosimeter function is available with the SV 25\_2 dedicated microphone. Fast USB 1.1 interface (12 MHz) creates real-time link for the PC "front-end" application of the SVAN 955 instrument. It can be controlled and the measurement results can be also downloaded to any PC using the RS 232 or IrDA interfaces. Instrument can be offered with GPRS modem, LAN & WLAN connection module. Together with SvanPC+\_RC remote communication software, these interfaces provide easy remote access to instrument settings & data over internet and local area network. Instrument is powered from four AA standard or rechargeable batteries (separate charger is required). The powering of the instrument from the external DC power source or USB interface is also provided. Robust case and light weight design accomplish the exceptional features of this new generation instrument.

### FEATURES

- Type 1 sound level measurements meeting IEC 61672:2002
- Single measurement range in meter mode
- Three parallel independent profiles
- 1/1 & 1/3 real-time octave analysis
- Free-field & diffuse-field measurements
- Advanced Data Logger, up to 12 results logged simultaneously including spectra
- Time-history recording on USB Memory Stick providing almost unlimited logging capacity
- All weather measurements with SA 203 microphone protection kit
- Acoustic dose meter
- Advanced trigger and alarm functions
- USB 1.1 interface (real-time PC "front end" application)
- USB 1.1 Host interface
- RS 232 interface for modems support (GPRS, Ethernet, WLAN)
- Integration time programmable up to 24 h
- Power supply by four AA rechargeable or standard batteries
- Hand-held, light weight and robust case
- Easy in use



# TECHNICAL SPECIFICATIONS

## SOUND LEVEL METER

Standards	Type 1: IEC 61672-1:2002
Meter Mode	$L_{eq}$ , $Spl$ , SEL, $L_{EP,d}$ , $L_{den}$ , $L_{tm3}$ , $L_{tm5}$ , Statistics - $L_n$ ( $L_1$ - $L_{99}$ ), $L_{Max}$ , $L_{Min}$ , $L_{Peak}$ Simultaneous measurement in three profiles with independent set of filters and detector time-constants
Weighting Filters	A, C and Z
RMS Detector	Digital True RMS detector with Peak detection, resolution 0.1 dB Time-constants: Slow, Fast, Impulse
Microphone	7052, nominal sensitivity 22 mV/Pa, prepolarised 1/2" condenser microphone
Measurement Range	Total Dynamic Range: 15 dBA RMS ÷ 141 dBA Peak Linearity Range: 25 dBA RMS ÷ 141 dBA Peak
Dynamic Range	120 dB in meter mode
Internal Noise Level	Less than 15 dBA RMS
Analyser*	1/1 octave real-time analysis, 10 filters from 31.5 Hz to 16kHz, IEC 61260 (option) 1/3 octave real-time analysis, 31 filters from 20Hz to 20kHz, IEC 61260 (option)
Data Logger*	Time-history logging of RMS / Max / Min / Peak results including spectra when available to internal memory or USB Memory Stick (USB Host option) with logging step down to 2 ms (option)
Acoustic Dose Meter*	Acoustic dose meter meeting IEC 61252 with SV 25_2 microphone (option)

## BASIC DATA

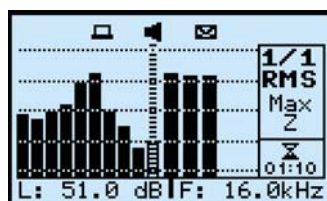
Input	IEPE or Direct with TNC connector (SV 12L IEPE preamplifier)
Display	LCD 128 x 64 pixels plus icons with backlighting
Memory	16 MB non-volatile flash type, USB Memory Stick (option)
Interfaces	USB 1.1 Client, USB 1.1 Host (option), RS 232 (with SV 55 option), IrDA (with USB Host option) Extended I/O - AC output (1 V Peak) or Digital Input/Output (Trigger - Pulse)
Power Supply	Four AA batteries (alkaline) operation time > 12 h (6.0 V / 1.6 Ah)** Four AA rechargeable batteries operation time > 16 h (4.8 V / 2.6 Ah)** SA 17A external battery pack (option) operation time > 24 h** External power supply 6 V DC ÷ 15 V DC (1.5 W) USB interface 500 mA HUB
Environmental Conditions	Temperature from -10 °C to 50 °C Humidity up to 90 % RH, non-condensed
Dimensions	335 x 82 x 42 mm (with microphone and preamplifier)
Weight	610 grams with batteries, microphone and preamplifier

\*each function parallel to the meter mode

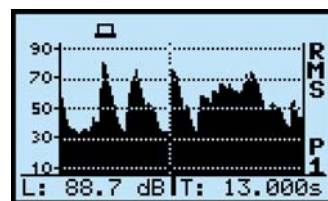
\*\*with USB 1.1 Host function not active and backlight off



Main result in one-profile view



1/1 octave analysis



Time-history plot

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

DISTRIBUTOR:



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

