

1 INTRODUCTION

The **SVAN 955** is digital, Type 1 sound level meter meeting IEC 61672:2002 standard. The instrument is dedicated to general acoustic measurements, environmental noise monitoring, occupational health and safety monitoring. Acoustic dose meter function is also available as an option with the **SV 25** dedicated microphone. The **SVAN 955**, using computational power of its digital signal processor, can perform real time statistical calculations.

Three acoustic profiles can be measured in parallel with independently defined filters and RMS detector time constants (e.g. concurrent Impulse, Fast and Slow measurements are possible). All required weighting filters (e.g.: **Z**, **A**, **C**) are available with this instrument.

Fast USB 1.1 interface (with 12 MHz clock) creates real time link for the application of the **SVAN 955** as a PC front-end. The measurement results can be stored in large 16 MB, non-volatile memory or external USB Memory Stick (option) and easy downloaded to any PC using USB 1.1 and SvanPC software. The usage of the RS 232 interface (option) or IrDA interface (option) is also possible.

The **SVAN 955** can be used in hard environmental conditions over the whole work day thanks to built-in replaceable four AA standard or rechargeable (i.e. NiMH) batteries and robust, lightweight construction.

The main features of SVAN 955 instrument are as follows:

SVAN 955 as Sound Level Meter

- noise measurements (**SPL**, **LEQ**, **SEL**, **L_{den}**, **L_{tm3}**, **L_{tm5}**, **L_{Peak}**, **L_{Max}**, **L_{Min}**, **L_{EPd}** and statistics) with Type 1 accuracy in the frequency range 20 Hz ÷ 20 kHz and with 48 kHz sampling rate
- parallel **IMPULSE**, **FAST** and **SLOW** detectors for the measurements with **A**, **C** or **Z** filters
- one measurement range 21 dB_{A RMS} ÷ 141 dB_{A PEAK} (5 dB margin from noise level) in the **SLM** mode

General features of SVAN 955

- advanced data logger, up to 12 results logged simultaneously from three independent profiles (**PEAK** / **MAX** / **MIN** / **RMS** results from each profile) with time step down to 2 ms
- advanced trigger function
- USB 1.1 Client (standard) and RS 232, IrDA, USB Host interfaces (options)
- powering from four AA (operation time OT > 12 h), rechargeable batteries (OT > 16 h), SA 17A external battery pack (OT > 14 h), external DC power source (6 V ÷ 15 V) or USB interface (500 mA)
- handheld, robust case and light weight (only ca 600 grams)

Accessories included

- **7052S_1** - prepolarised ½" condenser ACO PACIFIC's microphone with nominal sensitivity 22 mV/Pa
- **SV 12L** - microphone preamplifier
- **SC 56** - USB 1.1 cable
- **4x AA** batteries
- **SvanPC** rev. 2xx for Windows 95/98/NT/2000/XP

Accessories available

- **SA 17A** - external battery pack
- **SA 22** - windscreen
- **SA 43** - carrying case for SVAN 95x and accessories
- **SA 46** - carrying belt-bag for SVAN 94x and SVAN 95x (leather)
- **SA 47** - carrying bag for SVAN 95x and accessories (fabric material)
- **SV 25** - dose meter microphone with integrated preamplifier and cable
- **SV 55** - RS 232 option for the SVAN 955
- **SvanPC+** for Windows 98/2000/XP

Software options available

- **SV 955_10** - dose meter without the **SV 25** microphone
- **SV 955_14** - Time History Data Logger



Notice: The software options can be purchased in any time as they require for their activation only the introduction of the special code.



View of the SVAN 955 instrument with the preamplifier and the microphone

The current list of SVAN 955 options and accessories are presented below:

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|------------|--|
| SVAN955 | Type 1 SLM |
| SVAN955_1 | SVAN 955 including Logger |
| SVAN955_2 | SVAN 955 including Logger & USB Host functions |
| SV 955_10 | Dose meter option for the SVAN 955 (without SV 25 microphone) |
| SV 955_14 | Time History Data Logger option for the SVAN 955 |
| SV 25 | Dose meter microphone with integrated preamplifier and cable |
| SV 55 | RS232 interface option for the SVAN 95x |
| SV 56 | IrDA interface option for the SVAN 95x |
| SC 35 | Cinch (plug) to BNC (plug) cable (2 m) |
| SA 22 | Windscreen for 1/2" microphone |
| SA 43 | Carrying case for SVAN 95x and accessories |
| SA 46 | Carrying belt-bag for SVAN94x and SVAN 95x (leather) |
| SA 47 | Carrying bag for SVAN 95x and accessories (fabric material) |
| SVAN 955 - | accessories included:

7052S_1 prepolarised microphone, SV 12L preamplifier, SC 56 USB cable, 4 AA batteries, SvanPC+ (rev. 1.xx) for Windows 2000/XP software |



Notice: The **USB-HOST** should be purchased only with a new instrument because it is the hardware option and any future upgrade is not available in this case.