

1 INTRODUCTION

The **SVAN 953** is digital, Type 2 sound level meter along with analyser 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 953**, using computational power of its digital signal processor, can perform real time statistical calculations.

Three acoustic profiles allow parallel measurements 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 953** 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 953** can be used in hard environmental conditions over the whole work day thanks to replaceable four AA standard or AA rechargeable (i.e. NiMH, the separate charger is required) batteries and robust, lightweight construction.

The main features of SVAN 953 instrument are as follows:

SVAN 953 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 2 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 26 dB_{A RMS} ÷ 141 dB_{A PEAK} (5 dB margin from noise level) in the **SLM** mode

General features of SVAN 953

- 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 standard batteries (operation time - OT > 12 h) or AA rechargeable batteries (e.g. NiMH - OT > 16 h), SA 17A external battery pack (OT > 24 h), external DC power source (6 V ÷ 15 V) or USB interface (500 mA)
- handheld, robust case and light weight (only ca 600 grams with batteries, microphone and preamplifier)

Accessories included

- **7052S** - prepolarised ½" condenser ACO PACIFIC's microphone with nominal sensitivity 20 mV/Pa
- **SV 12** - microphone preamplifier
- **SC 16** - USB 1.1 cable
- **4x AA** alkaline batteries
- **SvanPC** 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 953_1** - 1/1 octave analysis option
- **SV 953_10** - dose meter without the **SV 25** microphone



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



SVAN 953 instrument with the preamplifier and the microphone

The current list of SVAN 953 options and accessories are presented below:

SVAN953	Type 2 SLM
SVAN953_1	SVAN 953 including Logger
SVAN953_2	SVAN 953 including Logger & USB Host functions
SV 953_1	1/1 octave analysis option for SVAN 953
SV 953_10	Dose meter option for the SVAN 953 (without SV 25 microphone)
SV 25	Dose meter microphone with integrated preamplifier and cable
SV 55	RS232 interface option for the SVAN 95x except SVAN 954
SV 56	IrDA interface option for the SVAN 95x except SVAN 954
SC 26	Extension cable TNC (plug) to TNC (socket) (3 m)
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 953	accessories included: 7052S prepolarised microphone, SV 12 preamplifier, SC 16 USB cable, 4 x AA batteries, SvanPC+ (ver. 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.