

## SVAN 912AE Handheld Sound & Vibration Analyser



### FUNCTIONS

#### Sound Level Meter & Vibration Meter

- noise measurements (Spl, L<sub>eq</sub>, SEL, Statistics)
- infra and ultrasound measurements (from 1 Hz to 90 kHz)
- acceleration, velocity and displacement measurements
- human vibration measurements (meets ISO 2631-1&2)
- four channel sound and vibration measurements (optional with SV 06A or SV 08A)

#### Analysar

- real-time 1/1 octave and 1/3 octave analysis up to 90 kHz
- real-time narrow band frequency analysis up to 90 kHz (FFT)
- digital ZOOM (down to 0.016 Hz resolution)
- four channel frequency analysis (optional with SV 06A or SV 08A)

#### FEATURES

- Type 1 instrument conforming to: IEC 651, IEC 804, IEC 61672 and ISO 8041
- multi-function instrument
- easy operation
- built-in Flash disk 64 MB
- built-in rechargeable battery (operational time > 8 h)
- USB 1.1 interface
- RS 232 interface
- AES/EBU interface
- large LCD with backlight
- handheld, robust case
- light weight

## Acoustic Calibrators SV 30A & SV 31



- Type 1 IEC 60942
- 1000 Hz
- 94 dB or 114 dB levels (SV 30A)
- 114 dB level (SV 31)
- 1/2" internal reference condenser microphone
- automatic power On/Off
- microprocessor based design
- built-in temperature and static pressure compensation
- 2 x AAA batteries
- dimensions: 65 x 65 x 70 mm
- weight: ca 300 g



## Environmental Noise Monitoring SV 211

### NOISE MONITORING STATION SV 211

- periodical environmental noise monitoring terminal
- weather protected
- built-in sound meter/analyser
- 110 dB dynamic range
- powered from internal battery (solar panel optional)
- wireless data transfer (GPRS) (optional)
- weather conditions monitoring (optional)



### NOISE MONITORING STATION SV 210

- permanent environmental noise monitoring terminal
- fully weather protected
- built-in sound meter/analyser (SVAN 945A)
- 110 dB dynamic range
- powered from internal battery or mains (solar panel optional)
- wireless data transfer (GPRS)
- weather conditions monitoring (optional)

### CONTROL STATION

- PC based
- SVanPC+(RC) software for control, data collecting and presentation Windows 2000/XP compatible

### APPLICATIONS

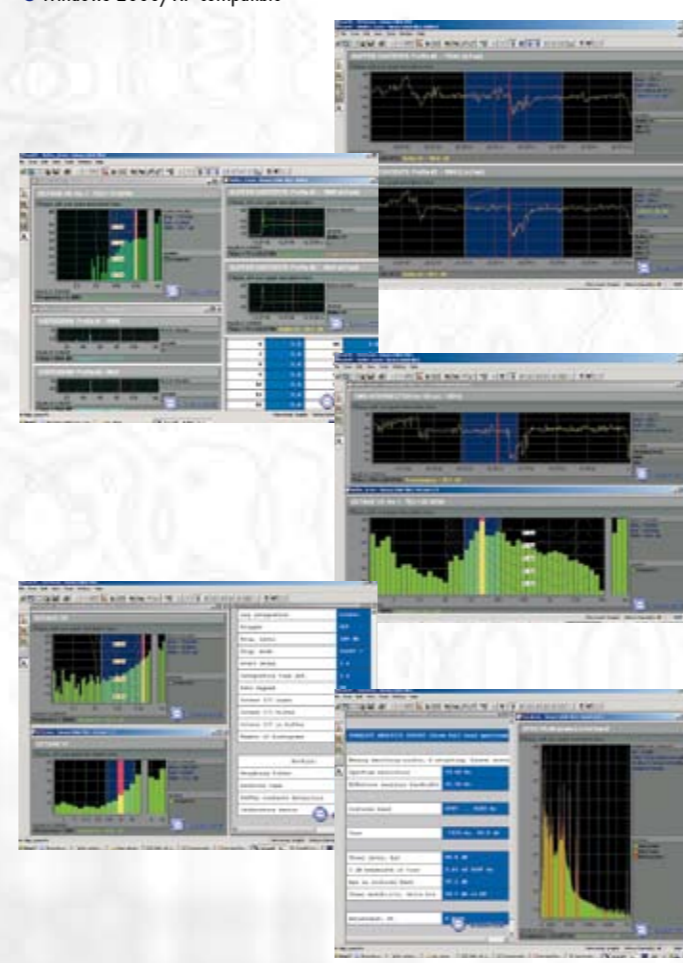
- on line noise monitoring
- long term noise monitoring
- acoustic map verification
- noise barrier effectiveness verification



## SvanPC+ software Base module

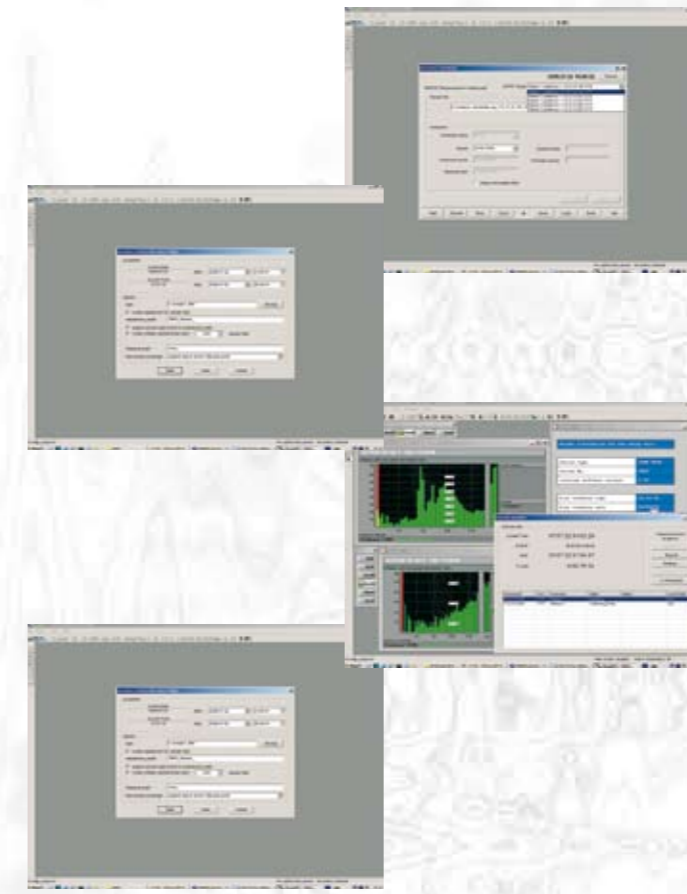
Sophisticated tool extending functionality of the Svantek sound & vibration measuring instruments:

- remote control and data transfer for the 94x, 95x and 912 instruments
- measurement results downloading
- data visualisation
- data files storage
- data post-processing (e.g. spectra comparison, time history recalculation, tonality analysis etc.)
- data files export (\*.txt, \*.emf, \*.bmp formats)
- results printing
- RS 232 and USB interfaces compatible
- Windows 2000/XP compatible



## SvanPC+(RC) Remote communication module for SvanPC+

- remote communication using GPRS modems for the 94x & 95x instruments
- simultaneous data acquisition from many instruments
- programmable session for each remote instrument (start/stop time, measurement parameters, type of collected results etc.)
- two modes of operation
  - two way communication between PC and instruments to gather measurement results
  - one way (receive only) communication to gather results sent by instruments
- direct data transmission to internet (supports UDP/IP) in receive only mode
- real-time visualisation of collected results
- advanced options to ensure continuity of GPRS connection and minimize data loss



SVANTEK is Polish company established in 1990. Our mission is developing and producing the most advanced instrumentation for the sound and vibrations measurements. We currently offer:

#### Instruments

- sound and vibration level meters
- sound and vibration analysers
- multi channel input modules
- acoustic calibrators
- signal generators
- measurement microphones
- accelerometers
- accessories

#### Measurement systems

- environmental noise and vibration monitoring systems
- instrumentation for building acoustics
- laboratory equipment

#### Software

- SVanPC+ for data downloading, post-processing and remote operation
- SVanPC+(RC) (Remote Communication) sophisticated software module for remote communication between PC and SVAN 9xx instruments including GPRS data transmission.



Pl. Inwalidów 3/62  
01-514 WARSZAWA, POLAND

phone/fax (+48) 22 839 00 31  
phone/fax (+48) 22 839 64 26  
http://www.svantek.com  
e-mail: office@svantek.com.pl

# Pocket Catalogue 2006



The new SVAN 95x series is an extremely powerful extension of the very successful 94x series.

Apart from many detailed improvements (like higher dynamic, bigger display, new keyboard layout, flexible power supply unit etc.) the "milestone" in the SLM development is USB Host functionality!

That function brings to the 95x such revolutionary capabilities as:

- time domain signal recording (to the USB Memory Sticks),
- wireless communication and data transfer to the Host PC or PDA.



## SVAN 955 Low cost Sound Level Meter

### FEATURES

- SVAN 955 single range 25 dBA - 141 dBA, Type 1 SLM
- Spl, L<sub>eq</sub>, SEL, Statistics, TaktMax measurements with parallel Impulse, Fast and Slow detectors and A, C or Z filters
- acoustic dose meter function (optional)
- internal non-volatile memory 16 MB
- Time History recording of RMS / Max / Min / Peak results to the USB Memory Stick (with USB Host option)
- USB 1.1 Client
- USB 1.1 Host, RS 232 & IrDA interface (optional)
- battery operational time up to 16 h (in the SLM mode)
- handheld, robust case (aluminium profile)
- light weight (only ca 600 grams)

## SVAN 953 & 957 Low cost Sound & Vibration Analysers

### FEATURES

- Type 1 SLM - SVAN 957, single range 25 dBA - 141 dBA, Type 2 SLM - SVAN 953, single range 26 dBA - 141 dBA
- Spl, L<sub>eq</sub>, SEL, Statistics, TaktMax, parallel Impulse, Fast and Slow detectors for the measurements with A, C or Z filters
- vibration measurements (optional) meeting ISO 8041:2005 parallel Peak, RMS (incl. MTVV) and RMQ (incl. VDV) measurements
- 1/1 octave real-time analysis (optional for SVAN 953)
- 1/3 octave real-time analysis (optional)
- FFT real-time analysis (optional - SVAN 957 only)
- acoustic dose meter function (optional)
- internal non-volatile memory: 16 MB - SVAN 957, 8 MB - SVAN 953
- Time History recording of RMS / Max / Min / Peak results to the USB Memory Stick (with USB Host option)
- USB 1.1 Client
- USB 1.1 Host, RS 232 & IrDA interface (optional)
- battery operational time up to 16 h (in the SLM mode)
- handheld, robust case (aluminium profile)
- light weight (only ca 600 grams)



## SVAN 959 Sound & Vibration Analyser

### FEATURES

#### Sound Level Meter

- noise measurements (Spl, L<sub>eq</sub>, SEL, L<sub>eq</sub>, TaktMax and Statistics) with Type 1 accuracy
- parallel Impulse, Fast and Slow detectors for the measurements with A, C or Z filters
- dynamic range 110 dB

#### Vibration Meter (optional)

- vibration measurements according to ISO 2631-1 meeting ISO 8041:2005
- parallel Peak, RMS (incl. MTVV) and RMQ (incl. VDV) measurements
- rotation speed measurement parallel to the vibration measurement (optional)

#### Analysar

- spectral analysis parallel to the Meter Mode operation
- 1/1 and 1/3 octave real-time analysis
- FFT calculation (1920 lines in real-time up to 22.4 kHz)
- acoustic loudness measurement (optional)
- tonality measurement (optional)
- reverberation time measurements (optional)
- user programmable second order band pass filters (optional)

#### General

- internal non-volatile memory 32 MB, external mass memory USB Memory Stick
- Time History recording of RMS / Max / Min / Peak results to the USB Memory Stick
- time domain signal recording to the USB Memory Stick (optional)
- user programmable filters (LP, HP and Band Pass)
- signal generator (optional)
- USB 1.1 Host & Client interface
- RS 232 & IrDA interface (optional)
- battery operational time up to 16 h (in the SLM mode)
- handheld, robust case (aluminium profile)
- light weight (only ca 600 grams)



## SVAN 954 Low cost Vibration Analyser

### FEATURES

- parallel acceleration, velocity and displacement measurements
- built-in "machine filter" (10 Hz - 1 kHz) meeting ISO 10816
- FFT analysis - 1600 lines in real-time with Hanning window (optional)
- 1/1 octave real-time analysis (optional)
- rotation speed measurement parallel to the vibration measurement (optional)
- internal non-volatile memory 8 MB
- Time History recording of RMS / Max / P-P / Peak results to the USB Memory Stick (with USB Host option)
- USB 1.1 Client
- USB 1.1 Host, RS 232 & IrDA interface (optional)
- battery operational time up to 16 h (in the Meter mode)
- handheld, robust case (aluminium profile)
- light weight (only ca 600 grams)



## SVAN 956 Vibration Analyser

### FEATURES

- parallel acceleration, velocity and displacement measurements
- built-in "machine filter" (10 Hz - 1 kHz) meeting ISO 10816
- FFT analysis - 1600 lines in real-time with Hanning window (optional)
- 1/1 and 1/3 octave real-time analysis (optional)
- Human Vibration measurement meeting ISO 8041:2005 (optional)
- rotation speed measurement parallel to the vibration measurement (optional)
- balancing of the rotating mass (optional)
- sophisticated enveloping analysis function (optional)
- user programmable filters (LP, HP and Band Pass)
- programmable measuring "route"
- internal non-volatile memory 32 MB, external mass memory USB Memory Stick
- Time History recording of RMS / Max / P-P / Peak results to the USB Memory Stick
- time domain signal recording to the USB Memory Stick (option)
- USB 1.1 Host & Client interface
- RS 232 & IrDA interface (optional)
- battery operational time up to 16 h (in the Meter mode)
- handheld, robust case (aluminium profile)
- light weight (only ca 600 grams)



## SVAN 945A Sound Analyser

### FEATURES

- noise measurements (Spl, L<sub>eq</sub>, SEL, L<sub>eq</sub>, Statistics, TaktMax) with Type 1 accuracy
- parallel Impulse, Fast and Slow detectors for the measurements with A, C, G or Z filters
- one measurement range 24 dBA RMS - 140 dBA PEAK in the SLM mode
- 1/1 and 1/3 octave real-time analysis parallel to the SLM operation
- FFT calculation (1920 lines in real-time up to 22.4 kHz)
- acoustic loudness measurement (optional)
- tonality function measurement with two 800 line FFT spectra parallel to the SLM operation (optional)
- reverberation time measurements (optional)
- user programmable second order band pass filters (optional)
- internal buffer for logging more than six weeks of 1 sec RMS / Max / Min / Peak results (8 or 48 MB of non-volatile memory)
- USB 1.1 and RS 232 interfaces
- built-in temperature and static pressure measurements
- battery rechargeable battery (operational time > 10 h)
- handheld, robust case
- light weight (only ca 600 grams)



## SVAN 948 Sound & Vibration Data Logger

### FEATURES

- four channels general purpose simultaneous vibration and sound measurement
- from 0.8 Hz to 20 kHz frequency band (4 channels / real-time)
- Human Vibration measurements meeting ISO 8041:2005 including VDV and MTVV
- vibration dose calculation function
- noise measurements Type 1 IEC 61672 (IEC 651 and IEC 804)
- acoustic dose measurement function (optional)
- 32 or 64 MB internal buffer for logging more than six weeks of 1 sec RMS / Max / Min / Peak or RMS / Max / P-P / Peak results
- time domain signal recording for the HVM applications (ISO 2631-5)
- FFT analysis - 400, 800 or 1600 lines (optional)
- 1/1 and 1/3 octave real-time analysis (optional)
- RT60 measurement (optional)
- easy operation
- USB 1.1 interface
- battery operational time > 10 h
- handheld, robust case
- light weight (only ca 600 grams)

