

INSTRUMENTATION FOR SOUND & VIBRATION MEASUREMENTS



SVANTEK

SVAN 979

Sound & Vibration Analyser

The most advanced and powerful single channel SLM & Vibration Meter ever made

FEATURES

- Extremely powerful Type 1 SLM (IEC 61672:2002) and sound analyser:
 - multi-profiles sound measurement
 - 1/1 or 1/3 octave analysis
 - audio events and wave file recording
 - data logging with sophisticated triggering
 - reverberation time measurement
 - pure tone detection
 - loudness analysis
 - FFT
- Powerful vibration meter & analyser:
 - advanced enveloping analysis
 - one or two planes balancing function
- Special functions:
 - signal generator
 - user programmable second order band pass filters
 - acoustic frequency response digitally compensated
 - automatic detection of the windscreen and extension cable
 - self-vibration monitoring
- State of the art hardware design:
 - 110 dB dynamic range
 - dual DSP architecture
 - OLED colour display with smashing brightness and contrast (10000:1)
 - Micro-Flash Card providing huge internal memory (up to 16 GB available now)
 - IEPE, Direct (AC or DC coupling) and 200 V polarisation inputs
 - USB Client and Host ports providing flexible functional extensions (GPRS, Ethernet, WLAN)
 - bluetooth interface
 - RS 232 interface
 - AC output and external trigger input



SA 203A

All Weather Microphone Protection

- Protection of the microphone and preamplifier from environmental conditions
- Type 1, Community and Airport characteristics available simultaneously
- Low cost

SVAN 959 Sound & Vibration Analyser



FEATURES

- Type 1, IEC 61672:2002 sound level measurements (PTB approval 21.21/0903)
- Intended for professional usage and provided with 1/1, 1/3 octave analysis and time-domain signal recording in a basic set
- General vibration measurements (acceleration, velocity and displacement)
- FFT real-time analysis
- Advanced data logger including spectra logging and audio events recording
- Pure tone detection
- Acoustic loudness measurements
- Reverberation time measurements
- User programmable second order band pass filters
- USB memory stick providing almost unlimited logging capacity
- Built-in signal generator
- Remote communication (GPRS, Ethernet, WLAN)
- All weather microphone protection kit designed for community and airport noise monitoring



SVAN 957 Sound & Vibration Analyser

FEATURES

- Type 1, IEC 61672:2002 sound level measurements
- Low cost version of SVAN 959 dedicated for general acoustic and vibration measurements, environmental monitoring, occupational health and safety monitoring
- General vibration measurements (acceleration, velocity and displacement)
- 1/1 or 1/3 octave real-time analysis
- FFT real-time analysis
- Time-domain signal recording
- Reverberation time measurements
- USB memory stick providing almost unlimited logging capacity
- Remote communication (GPRS, Ethernet, WLAN)
- Acoustic dosimeter function
- All weather microphone protection kit designed for community and airport noise monitoring



SVAN 955 Sound Level Meter

FEATURES

- Low cost Type 1, sound level measurements meeting IEC 61672:2002
- Intended to general acoustic measurements, environmental noise monitoring, occupational health and safety monitoring
- Three parallel independent profiles
- Single range in meter mode
- 1/1 real-time octave analysis
- All weather measurements with SA 203 microphone protection kit
- Remote communication (GPRS, Ethernet, WLAN)
- Time-history recording on USB memory stick providing almost unlimited logging capacity



SVAN 953 SLM & Analyser

FEATURES

- Type 2, sound level measurements meeting IEC 61672:2002
- Excellent choice for general acoustic measurements, environmental noise monitoring, occupational health and safety monitoring in Type 2 accuracy
- Three parallel independent profiles
- 1/1 real-time octave analysis
- FFT real-time analysis
- Remote communication (GPRS, Ethernet, WLAN)
- Time-history recording on USB memory stick providing almost unlimited logging capacity
- Acoustic dose meter



SV 30A & SV 31 Acoustic Calibrators

FEATURES

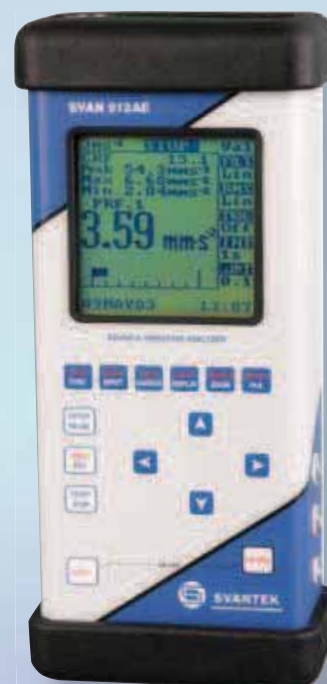
- Type 1 sound calibrator meeting IEC 60942 (PTB type approval 21.5/ 08.05)
- Frequency 1 kHz
- 94 dB (SV 30A) or 114 dB levels (SV 30A, SV 31)
- Calibrated 1/2" and 1/4" (SA 30 adapter) microphones
- 1/2" internal reference condenser microphone
- Microphone presence detection
- Automatic power on/off
- Built-in temperature and static pressure compensation
- Very robust casing



SVAN 912AE Sound & Vibration Analyser

FEATURES

- Type 1 IEC 61672:2002 sound level measurements
- Unique feature of ultrasound measurements with 1/4" condenser microphone and hydrophones
- Wide measurement band from 0.1 Hz to 90 kHz
- Five parallel independent profiles
- 1/1 or 1/3 octave real-time analysis parallel to the FFT analysis
- FFT real-time analysis
- Very low internal noise level
- Time-domain signal recording
- Large display
- RS 232 and USB interfaces
- Galvanic separation between communication interfaces and measurement path
- Hand held and robust case
- Easy in use



SVAN 958

Four-Channel Analyser

FEATURES

- Unique instrument on the world market with multiple range of possible applications
- Ideal choice for Human Vibration measurements meeting ISO 8041:2005 including VDV and MTVV
- Triaxial vibration and single channel sound measurement performed at the same time
- Ideal choice for monitoring of construction sites thanks to implemented KB filter
- All four channels flexibly configured, i.e. for acoustic power measurements applications
- Relevant set of accessories dedicated for each application of SVAN 958
- Noise measurements Type 1, IEC 61672:2002
- 1/1 or 1/3 octave real-time analysis
- FFT real-time analysis
- Sound intensity measurements
- Reverberation time measurements
- FFT cross spectra

- Time-domain signal recording
- USB memory stick providing almost unlimited logging capacity

SV 25

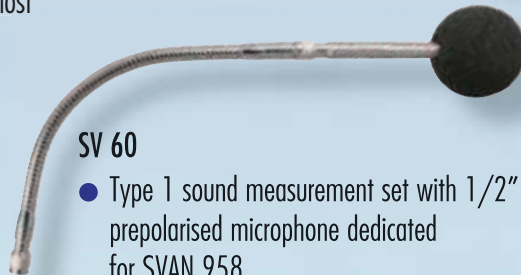
- Type 2 microphone in 1/2" casing dedicated for acoustic dose measurement
- 45 dBA RMS ÷ 141 dB Peak

SV 60

- Type 1 sound measurement set with 1/2" prepolarised microphone dedicated for SVAN 958
- 24 dBA RMS ÷ 140 dB Peak

SV 207

- Sensitivity 1000 mV/g
- Triaxial accelerometer dedicated for building vibration measurements
- Robust hermetic box with levelling system
- Mounting nails



SV 106 Six-Channel Human Vibration Meter & Analyser



FEATURES

- Revolutionary six-channel Human Vibration meter & analyser
- Additional two channels for grip force measurements
- Ideal choice for Hand-Arm and Whole- Body vibration measurements meeting ISO 8041:2005
- Capable to perform simultaneous measurements with two triaxial accelerometers (e.g. held in both hands)
- Time-domain signal recording (ISO 2631-5)
- 1/1 or 1/3 octave real-time analysis
- Hand-Arm adapter with triaxial mechanical filter (SA 55)
- Built-in micro flash card

Accessories for Human Vibration Measurements



SV 38

- Low cost triaxial Whole-Body seat accelerometer based on MEMS transducers
- Sensitivity 1000 mV/g
- Dedicated for Human Vibration measurements according to ISO 8041:2005 standard requirements
- Easy usage with SVAN 958 and SV 106
- Connectable to any vibration meter/analyser with IEPE inputs by means of three separate BNC connectors (SC 39S cable)

SV 50

- Triaxial accelerometer for Hand-Arm measurements
- Three mounting adapters
- Dedicated for SVAN 958 and SV 106



SV 101 Whole Body Vibration Dosimeter & Analyser

FEATURES

- Complete human vibration meter & analyser integrated with triaxial Whole-Body accelerometer dedicated to measure the standing operators' exposure to vibration
- Built-in operator-presence detection sensor and user interface (display with push-buttons) indicating current instrument state and measurement results
- Whole-Body human vibration measurement in conformance to ISO 8041:2005 and ISO 2631-1, 2 & 5 including VDV and MTVV
- Time-domain signal recording (meeting ISO 2631-5)
- 1/1 and 1/3 octave real-time analysis
- Motion sickness measurements



SV 100 Whole Body Vibration Dosimeter & Analyser in Seat-pad

FEATURES

- Digital Human Vibration meter & analyser integrated with triaxial Whole-Body accelerometer placed in one seat-pad
- Provided with the driver-presence detection sensor and user interface (display with push-buttons) indicating current instrument state and measurement results
- Ideal choice for the measurements according to ISO 2631 and ISO 8041:2005
- Time-domain signal recording (meeting ISO 2631-5)
- 1/1 and 1/3 octave real-time analysis
- Motion sickness measurements

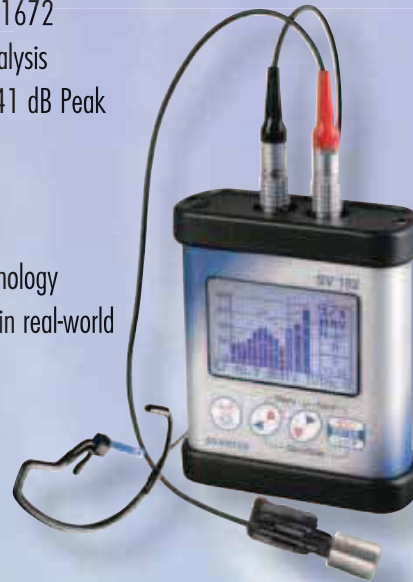


SV 102

Dual-Channel Dosimeter, SLM, Analyser

FEATURES

- Dual-channel acoustic dosimeter (IEC 61252 and ANSI S1.25-1991)
- Dual-channel Type 2 SLM conforming to IEC 61672
- Dual-channel real-time 1/1 or 1/3 octave analysis
- Single measurement range 45 dBA RMS ÷ 141 dB Peak
- **Audio events recording**
- Advanced data logger
- Built-in non-volatile memory up to 64 MB
- Automatic calibration thanks to the TEDS technology
- Individual evaluation of the HPDs attenuation in real-world
- MIRE technique with SV 25S
- Extremely compact, light weight
- Low cost



SV 25S

MIRE Microphone

- Meeting ISO 11904-1, ANSI S12.42
- 55 dBA ÷ 120 dB Peak
- Determination of sound immissions from sources located close to the ear
- Individual real-world test of the earmuffs noise reduction ratio



SV 102A

Type 1 Dual-Channel Dosimeter

FEATURES

- Type 1 version of SV 102 dosimeter
- Type 1 prepolarised microphone and dedicated preamplifier
- Dual-channel 20 Hz ÷ 20 kHz band
- Measurement range 45 dBA RMS ÷ 141 dB Peak
- Measurements In Real Ear (MIRE)
- Low cost



SVAN 954

Low Cost Vibration Analyser

FEATURES

- Excellent for general vibration measurements and machinery condition monitoring
- IEPE, Charge and Direct input modes
- Three parallel independent profiles
- Parallel acceleration, velocity and displacement measurements
- Built-in machine filter (10 Hz ÷ 1 kHz) meeting ISO 10816 requirements
- FFT analysis - up to 1600 lines
- 1/1 octave real-time analysis
- RPM measurement parallel to the vibration measurements
- Advanced data logger of RMS/Max/P-P/Peak results including spectral analysis
- Compact, light weight and robust case (only ca 390 grams including batteries)
- Battery operational time up to 16 h (in the meter mode)
- USB 1.1 Client



SVAN 956

Advanced Vibration Analyser

FEATURES

- Intended to advanced application such as balancing of rotation mass, sophisticated enveloping analysis or RPM measurement with laser tachometer
- 1/1 or 1/3 octave real-time analysis
- FFT real-time analysis - up to 1600 lines with Hanning window
- IEPE and Direct input modes
- Three parallel independent profiles
- Parallel acceleration, velocity and displacement measurements
- Built-in machine filter (10 Hz ÷ 1 kHz) meeting ISO 10816 requirements
- Time-domain signal recording to the USB memory stick
- User programmable LP, HP and Band Pass filters
- One or two planes balancing function
- Advanced data logger with almost unlimited logging capacity
- Programmable measurement "route"
- AC output: direct & D/A converter



SV 210 & SV 211 Noise Monitoring Systems

FEATURES

- Environmental (Airport, City and Industrial) monitoring Type 1, IEC 61672:2002
- Weather protected, designed for the outdoor use
- Dedicated for sound meters/analysers: SVAN 955/7/9 or SVAN 979
- Remote communication via GPRS transmission, LAN & WLAN (over Internet)
- Internal controller providing additional interfaces, system check, fan and heater thermostatically controlled
- SV 205 weather conditions monitoring module including wind speed and direction data
- Powered from mains (SV 210 only), rechargeable internal battery, DC power supply or solar panel
- Easy data download, visualization and transfer to spreadsheet with SvanPC+ software



SV 210



SA 203

APPLICATIONS

- On-line noise monitoring
- Long-term noise monitoring
- Acoustic map verification
- Verification of noise barrier effectiveness



SV 211

SV 215 Indoor Noise Monitoring System

FEATURES

- Dedicated for indoor use (e.g. neighbourhood noise complaints)
- Audio events recording function to USB memory stick with remote manual trigger (noise source identification)
- 1/1 and 1/3 octave real-time analysis
- Advanced data logger with almost unlimited logging capacity
- Advanced automatic trigger function
- Compact and portable



SV 212 & SV 213

Noise & Vibration Monitoring Systems

FEATURES

- Environmental terminal with simultaneous noise & vibration monitoring
- Airport and community noise monitoring
Type 1, IEC 61672:2002
- Four-channel noise monitoring with SV 213 and four SV 208
- Vibration measurements with KB filter, DIN 4150
- SV 207 triaxial vibration measurements
with accelerometer in robust hermetic metal box
with special levelling system
- SV 208 sound measurements set including outdoor
microphone protection kit
- Weather protected, designed for the outdoor use
- Four-channel 1/1 or 1/3 octave real-time analysis
- Four-channel FFT real-time analysis
- Time-domain signal recording (wave files)
- Sophisticated alarm functions including reporting
via text messages (SMS) and e-mails
- Remote communication via GPRS transmission,
LAN & WLAN (over internet)
- Internal controller providing additional interfaces,
system check, fan and heater thermostatically controlled
- SV 205 weather conditions monitoring module including
wind speed and direction data
- Powered from mains (SV 213 only),
rechargeable internal battery,
DC power supply or solar panel
- Easy data download, visualization
and transfer to spreadsheet
with SvanPC+_RC software



SV 212



SV 213

APPLICATIONS

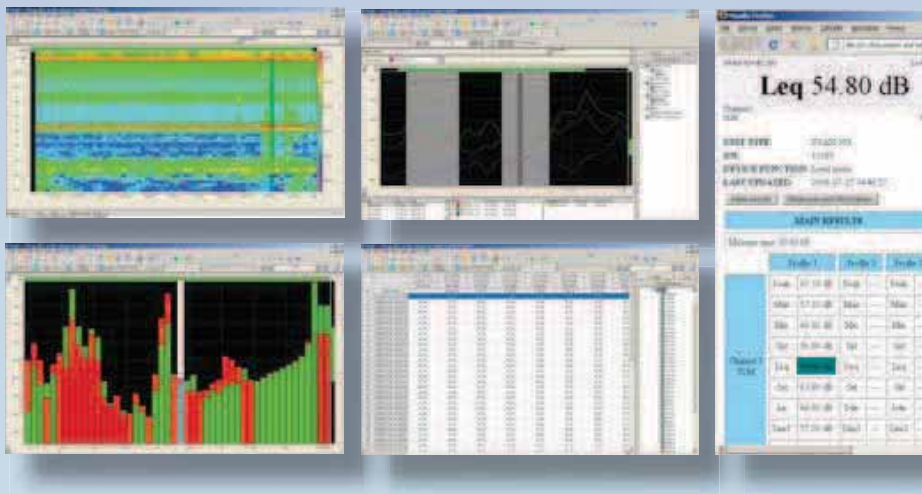
- On-line noise monitoring
- Ground and building construction
vibration monitoring
- Long-term noise monitoring
- Acoustic map verification
- Verification of noise barrier
effectiveness

SvanPC+ software

Powerful tool extending functionality of SVANTEK sound & vibration measuring instrumentation

FEATURES

- Downloading measurement results from instruments to PC
- Data and instrument settings visualisation (tables, graphs)
- Instrument settings adjusting (editor & wizard modes)
- Data files storage and management in project documents
- Data post-processing (e.g. spectra comparison, time-history recalculation, tonality analysis, dose calculation)
- Easy direct data export to commonly used applications
- Support for all new instruments
- RS 232 and USB interfaces compatible
- Windows 2000/XP and VISTA



SvanPC+_RC (Remote Communication module)

Advanced software for data transmission dedicated for SVANTEK monitoring systems

FEATURES

- Remote communication using GPRS, LAN, WLAN and Internet
- Simultaneous data acquisition from many measuring stations or instruments
- Several type of communication modes (sessions - data stored only in remote PC, AFD - periodical automatic or manual files download)
- Each instrument or monitoring station can be individually configured and controlled
- Real-time measurement results preview
- Automatically generated HTML code for data publishing
- Built-in ftp client for data transferring
- Sophisticated mechanisms for optimisation of GPRS transmission especially in case of lost connections

SVANTEK is Polish company established in 1990

Our mission is developing and producing the most advanced instrumentation for sound and vibrations measurements

We are offering:

- Sound and vibration level meters
- Sound and vibration analysers
- Multi-channel meters and analysers
- Acoustic calibrators
- Signal generators
- Measurement microphones
- Accelerometers
- Environmental noise and vibration monitoring systems
- Instrumentation for building acoustics measurements
- Laboratory equipment including complete calibration systems
- Software for data downloading, post-processing, visualisation and export to popular applications
- Sophisticated software module for remote communication with instruments and monitoring system over GPRS, LAN, WLAN and Internet
- Accessories

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