

# SvanPC++ WAVE Waveform Analysis Software

SvanPC++ WAVE module is designed for analysis of wave files from Svantek noise or vibration instruments. The module provides calculation of overall results such as Leq, Lmax, Lmin, Lpeak as well as 1/3 octave and FFT calculations.

The unique feature of SvanPC++ WAVE is function of real-time analysis support. This function requires real-time streaming function in the Svantek instrument available in selected models: SVAN 948 / 945A / 956 / 957 / 959 / 979. Real-time streaming function in the Svantek instrument

sends the time-domain signal through USB client port regardless of the instrument operating mode. The WAVE module is using a dedicated USB driver to collect the time-domain signal allowing the on-line calculations.

The SvanPC++Wave module is available as the part of the Analyser software kit that extends functionality of SvanPC++ base version. The kit also includes SvanPC++ Environmental Module with its Block/Marker generator and projects manager.

## Key features

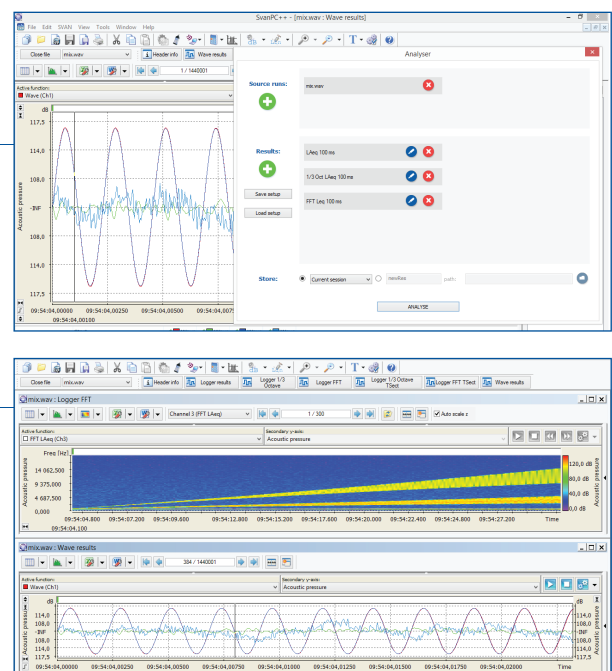
- New intuitive user interface
- Recalculation of noise & vibration wave files
- Compatibility with tools of SvanPC++ EM Module
- Real-time signal support

## Main applications

- Sound engineering
- Machine vibration analysis (FFT)
- Tonality calculation
- Noise statistics calculation

## Specifications

Wave sampling frequencies	51,2 kHz, 48 kHz, 6 kHz ; bits/sample: 8, 16, 24, 32
Sound filters	A, C, Z, G
Vibration filters	HP1, HP3, HP10, Vel1, Vel3, Vel10, Dil1, Dil3, Dil10, VelMF, WBxy, WBz, Wm, WBc, Wv, Wh, HA, Wk, Wd, Wc, Wj, Wg, KB, Wb, BL Wm, BL Wv, BL Wh, BL Wk, BL Wd, BL Wc, BL Wj, BL Wg, BL Wb
Detectors	Lin (true RMS), F, I, S, 100ms, 125ms, 200ms, 500ms, 1s, 2s, 3s, 5s, 10s
Broadband results (sound)	Leq, Lpeak, Lmax, Lmin
Broadband results (vibration)	RMS, PEAK, MAX, MIN, P-P
Results integration period	up from 1ms
Spectrum analysis	1/1, 1/3, FFT
Octave band analysis bandwidth	1/1: 1 Hz – 16 KHz, 1/3: 0.8 Hz – 20 kHz
FFT window functions	Simple: Rectangle, Bartlett, Parzen, WelchHann (Hanning), Exact Blackman, Nuttall Blackman, Nuttall Blackman-Harris, Flat top, Cosine, Kaiser-Bessel
	Parametric: Triangle, Hamming, Cosine, Blackman, Gaussian, Tukey, Kaiser (Kaiser-Bessel) , Exponential
FFT number of analysis points	1024, 2048, 4096, 8192, 16384, 32768, 65536, 131072
FFT overlap	0 – 99%



The policy of our company is to continually innovate and develop our products. Therefore, we reserve the right to change the specifications without prior notice.