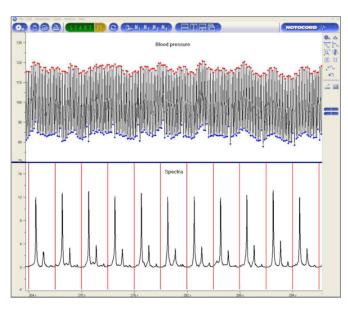


SIGNAL PROCESSING PRODUCTS



SPECTRAL ANALYSIS OF CONTINUOUS AND DISCRETE SIGNALS



Spectral analysis of blood pressure with SPA10a

ANALYZING BRAIN ACTIVITY

Spectral analysis is widely used to study **periodic** patterns in a signal, finding applications in the following experiments:

- Heart rate variability
- Pressure signal variability
- Doppler analysis
- ECG, EEG, EMG signal analysis
- Signal analysis for filter design

DISCOVER SPA10a

Our software module **SPA10a** performs spectral analysis of physiological time series using **Fourier transformation** and **autoregressive** methods.

KEY FEATURES

- User-defined window duration
- User-defined selection of frequency bands
- Computation of absolute and relative power for each frequency band
- Continuous display of spectra along raw signal on a universal chart display
- Extraction of analysis results in Excel® and MATLAB®

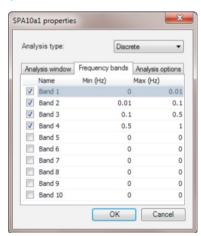
CUSTOMIZED ANALYSIS

Compatible with **continuous** and **discrete** signals, SPA10a allows identification of many **physiological** parameters such as blood flow velocity, neuromuscular activity and electrophysiological signal properties.

Sympathetic and parasympathetic activities can be assessed

continuously, using several **frequency bands** and ratios, for variability of heart rate and blood pressure.

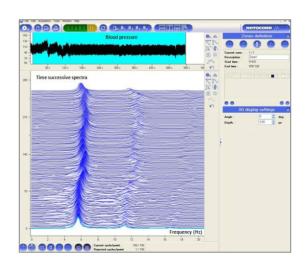
Users can select up to **10 bands** of interest and define their lower and upper values



Frequency bands selection

SPA10A CHARACTERISTICS

- Spectra can be computed from continuous (value) and discrete (time-value) signals
- Users can select their own frequencies of interest and window duration
- Results can be averaged on a user-defined number of consecutive windows
- Spectra from raw signals and computed parameters can be displayed together on a CTD60a/v or XYD30a display



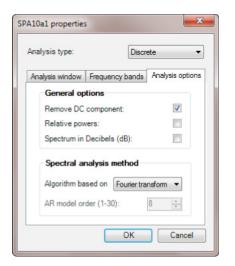
3D-display of blood pressure successive spectra

Universal chart display / with video

MATLAB® link for NOTOCORD-hem™

XY scope with 3D display and curve fitting capabilities

21 CFR Part 11 compliance is achieved via our AccessManager security application,



SPA10a properties

Visualize spectra changes on userdefined zones with XYD30a, our 3D-display module.

SPA10a coupled with XYD30a improves spectra readability since results are plotted on a frequencies X axis.

This combination allows fast 3D visualization of spectra changes over time.

SPA10a

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Related products

CTD60a/v

MPI10a

XYD30a



Working in a GLP environment?

