

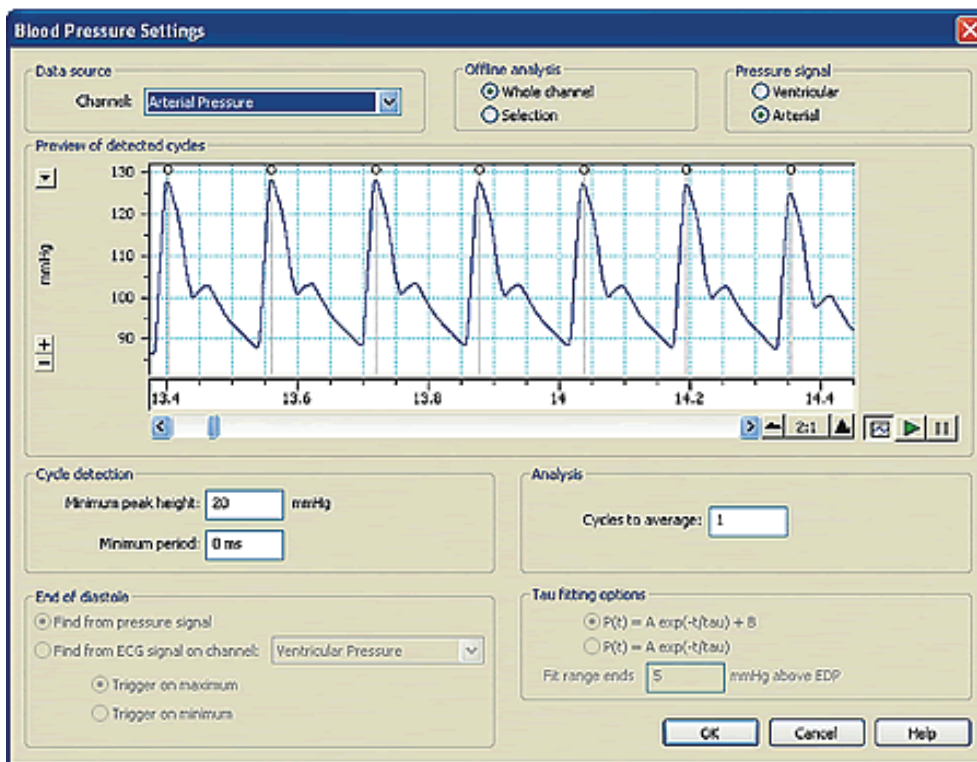
Automatic Detection and Analysis of Cardiovascular Pressure Waveforms

Automatically detect, analyze and report cardiovascular parameters from arterial or ventricular pressure signals, either online or offline, using the MLS370 Blood Pressure Module. The Blood Pressure Module for Chart for Windows is available separately or as part of Chart Pro, and can be used to analyze human or animal data.

1. Define the analysis type.

Choose Blood Pressure > Settings

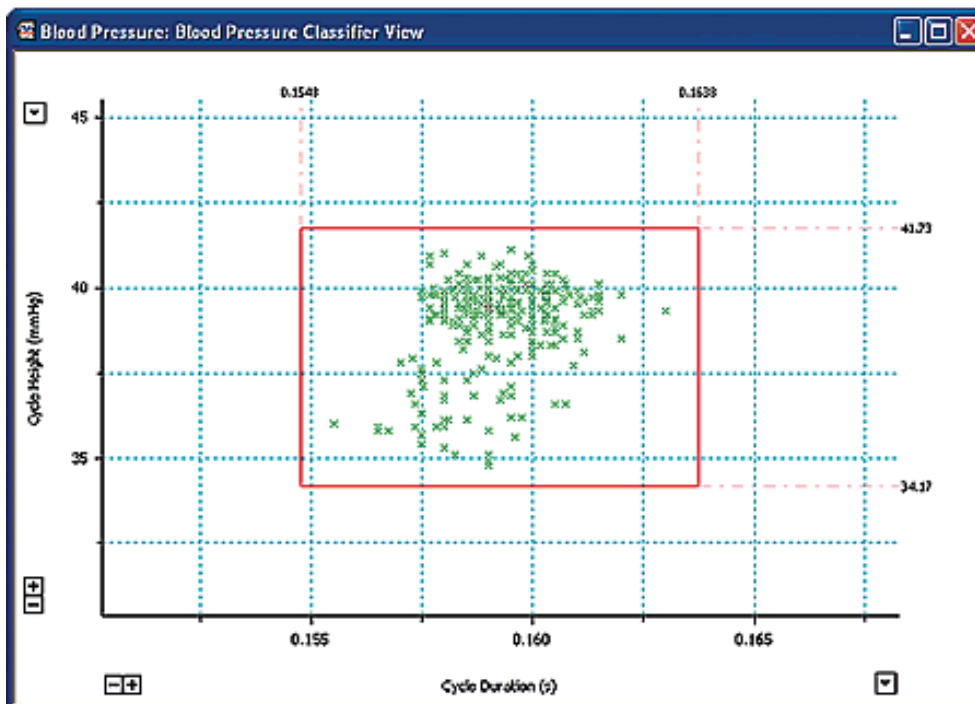
- Select Ventricular or Arterial Pressure to calculate specific waveform parameters.
- Select the settings required, then click OK to perform the analysis.



2. View analysis and data windows.

From the Blood Pressure menu select:

- A. *Classifier View* - this allows the selection of pressure cycles based on height and duration for analysis. The edges of the red box represent the classification limits. To include or exclude detected cycles in any analysis drag the limit edges with your cursor.



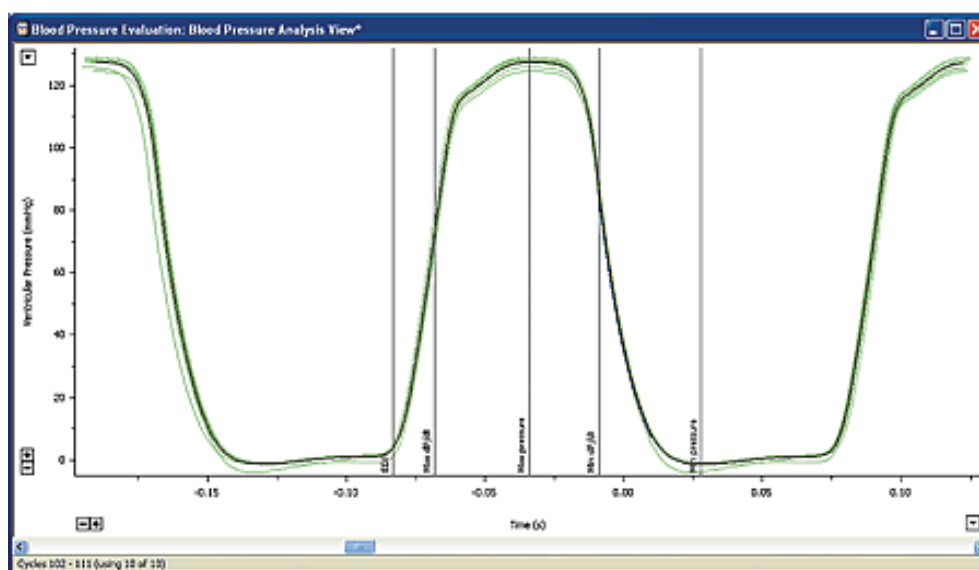
B. Analysis View – this displays pressure cycles with an average cycle displayed in black (select the number of cycles to be averaged in the Settings dialog). Each single or averaged pressure waveform can be viewed by using the scroll bar. The following parameters are detected and displayed in the Analysis View:

Ventricular parameters

- Maximum and Minimum Pressure
- Maximum dP/dt and Minimum dP/dt
- End Diastolic Pressure (EDP)

Arterial parameters

- Systolic and Diastolic Pressure
- Pressure at Dicrotic Notch



C. Table View - All parameters calculated by the Module are recorded in the Table View. This view displays one row for each averaged cycle. Click on a row and the corresponding Blood Pressure Analysis View and Chart View will also be displayed.

Select the parameters to display, in the Table View Options Dialog. These include Contractility Index, Cycle duration, Tau, Heart Rate and Ejection Times. To simultaneously view all analysis windows select Window > Tile.