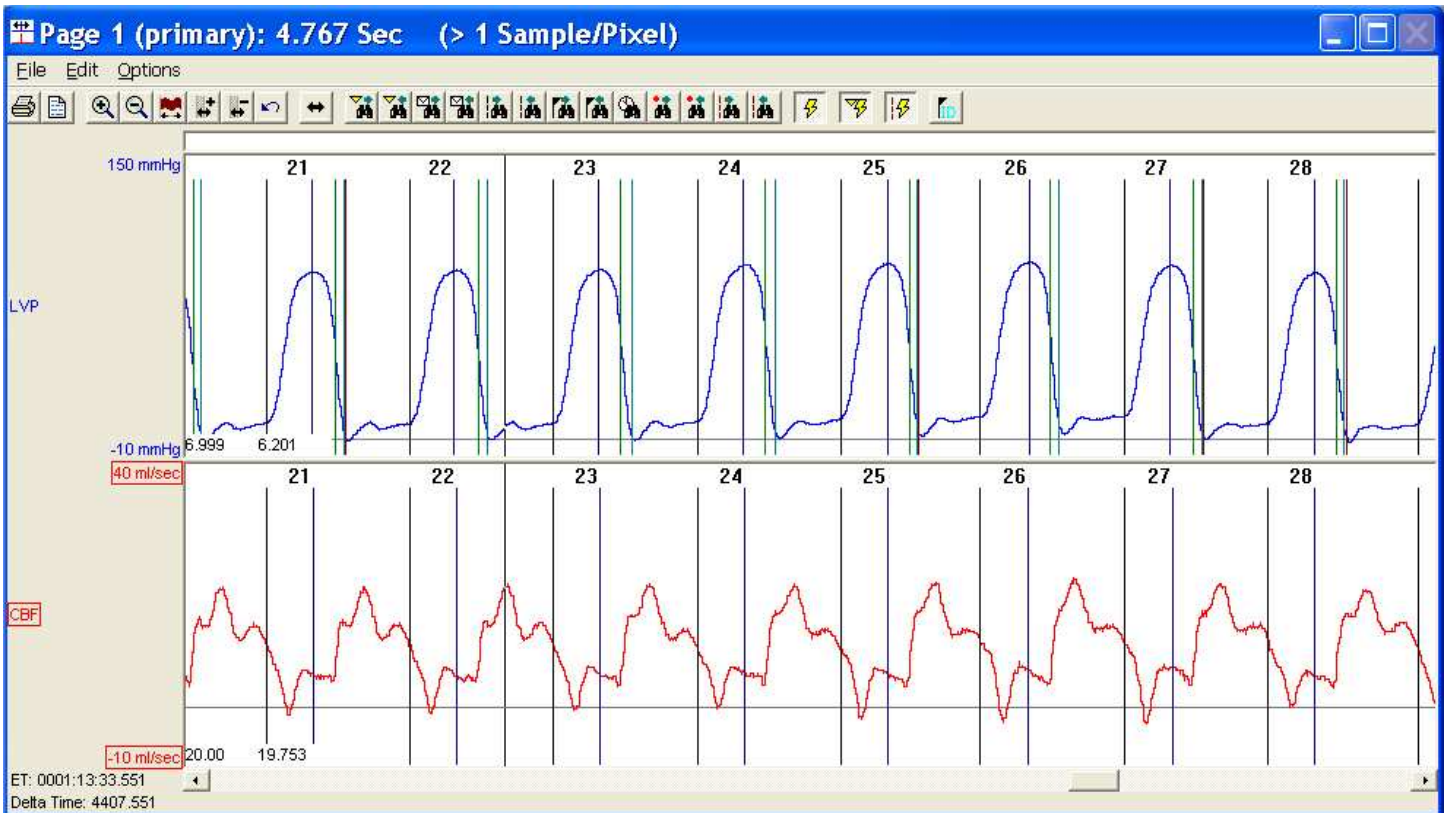




Coronary Blood Flow

The Coronary Blood Flow (CBF) Analysis Module computes physiologically meaningful parameters from digitized blood flow data. The analysis functions by applying a series of logical tests to the digitized flow signal, as well as pressure related events which occur in the left ventricular pressure signal, using criteria selected by the user. The pressure related events critical to the blood flow analysis are Left Ventricular End Diastolic Pressure and dP/dt_{min} . In

order to measure coronary flow, a valid left ventricular pressure channel must be present. The graph below represents a typical coronary blood flow recording, its related left ventricular blood pressure and its first derivative (dP/dt) as they would appear on the monitor. Automated validation marks for End Diastolic Point and End Systolic Point are shown. The validation marks provide visual, on-line verification of the accuracy of the system.



Technical Data Sheet

Model PNM-CBF100W

Coronary Blood Flow Analysis Module

Name	Definition
Num	The number of the cardiac cycle.
Mean	The integrated level of the flow for the cardiac cycle.
FMax	Maximum Flow that occurred for a cardiac cycle
FMin	Minimum Flow that occurred for a cardiac cycle.
CO	Cardiac Output.
SV	Stroke Volume.
+dQ	+dQ is the maximum positive value of the first derivative of the flow that occurs during the cardiac cycle.
SFlw	Flow during systolic part of cardiac cycle.
DFlw	Flow during diastolic part of cardiac cycle.
SVol	Volume during the systolic part of the cardiac cycle.
DVol	Volume during the diastolic part of the cardiac cycle.
-Flow	Any negative flow that occurred during the cardiac cycle.
TVol	Total Volume is the sum of Systolic Volume and Diastolic Volume: SVol + DVol.
NPMN	The non-pulsatile mean calculated over the complete logging interval.

DSI products are not intended for the purposes of diagnosis of disease or other conditions, or in the cure, mitigation, treatment, or prevention of disease, or used as a life support device. Use of DSI products are solely for the purposes of conducting life science research.