

## Combined ECG Holter & Ambulatory Blood Pressure Monitors



### Model 2301/2302

Vasomedical-BIOX™ 2301 Combined 3-Channel ECG Holter & Ambulatory Blood Pressure Monitor

Vasomedical-BIOX™ 2302 Combined 12-Channel ECG Holter & Ambulatory Blood Pressure Monitor

Vasomedical is pleased to announce its new and unique synchronized ECG Holter and Ambulatory Blood Pressure Monitors in a single device! The Model 2301 and Model 2302 Combined Monitors provide advanced high resolution ECG Holter technology accompanied by a simultaneous presentation and analysis of blood pressure waveforms and digital results. Everything you need to obtain and verify the clinical data is now available in one lightweight, easy to use, multiparameter system.

#### ADVANCED TECHNOLOGY

- Three programmable operation modes:
  - Synchronized ECG Holter and ABPM,
  - 3 or 12-channel ECG Holter, or
  - Ambulatory blood pressure monitoring (ABPM) only
- High resolution and sample rate enables high quality ECG signal capture with less artifact
- Interactive recording for additional blood pressure measurements in the event of ECG abnormalities
- Arterial pulse waveform and tabulated numerical data can be reviewed in an easy, downloadable format
- Advanced amplifier and A/D converter design allows for exceptional signal fidelity
- Dual sensor, dual MCU and dual valve technology ensure patient safety including intelligent overpressure protection and failsafe monitoring
- Digital dual valve provides smooth deflation and the accuracy expected from the auscultatory method



#### CONVENIENCE AND EASE OF USE

- LCD displays measurement results as well as user-friendly icons to simplify task performance and data retrieval
- Easy push-button setup and fast download/analysis reduce technician time
- Removable SD memory card enables quick data transfer and turnaround of the device
- Both models are small and lightweight, resulting in minimum interference with patient activity

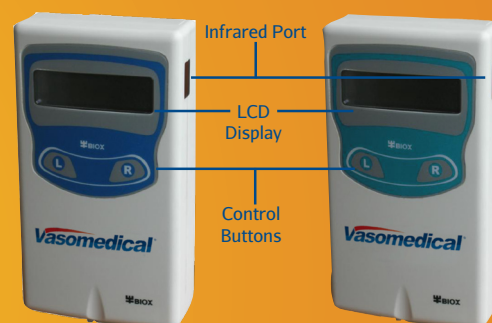
# VASOMEDICAL-BIOX™ 2301/2302 SPECIFICATIONS

## GENERAL

- ▶ Accessories:
  - 2 GB SD memory card
  - USB SD memory card reader
  - 5 or 7 lead ECG patient cable (Model 2301)
  - 10 lead ECG patient cable (Model 2302)
  - Carrying case & strap
  - Blood pressure cuff (Standard adult)
  - Infrared communication adapter
  - Recorder user manual
  - User Software CD
- ▶ Recording time: 24 hours
- ▶ Storage medium: SD card
- ▶ Memory size: 1 GB or more
- ▶ Data transfer: Full disclosure transfer via USB card reader; Setting and real-time data transfer via infrared port
- ▶ Batteries: 4 "AA" size alkaline batteries
- ▶ Dimensions: 4.88 x 2.68 x 1.22 (inches<sup>3</sup>) / 124 x 68 x 31 (mm<sup>3</sup>)
- ▶ Weight: 6.34 oz / 180 g (without batteries)
- ▶ Regulatory compliance: FDA cleared / CE Marked / Health Canada Listed ISO 13485 Certified

## ECG

	Model 2301	Model 2302
▶ No. of ECG channels	3	12
▶ No. of ECG electrodes:	5 or 7	10
▶ Pacemaker detection:	Independent channel	
▶ Input dynamic range:	±5 mV ECG, ±300 mV offset voltage	
▶ Input impedance:	>10 MΩ	
▶ CMMR:	>80 dB	
▶ Gain accuracy:	Maximum amplitude error <10%	
▶ Gain stability:	Change <3% over a 24-hour period	
▶ System noise:	<50 μVp-v	
▶ Multi-channel crosstalk:	<0.2 mVp-v	
▶ Bandwidth:	0.05 Hz - 40 Hz (-3 dB)	
▶ Minimum feature size:	50 μVp-v	
▶ Timing accuracy:	Overall error during 24-hour period <30 s	
▶ Sampling rate:	256 Hz/channel 2048 Hz/channel (pacemaker detection)	
▶ A/D resolution:	12 bit	



Vasomedical BIOX™ 2301 Front View

Vasomedical BIOX™ 2302 Front View



Vasomedical BIOX™ 2301/2302 Back View



Vasomedical BIOX™ 2301/2302 Side View

## BLOOD PRESSURE

- ▶ Method of measurement: Oscillometric
- ▶ Indicating range: 0 - 300 mmHg
- ▶ Recording range: Systolic: 50 - 260 mmHg  
Diastolic: 30 - 180 mmHg
- ▶ Accuracy: <3 mmHg