



# Combined ECG Holter & Ambulatory Blood Pressure Monitor

## *Model 2303/2305 2304/2306*

Vasomedical-BIOX™ 2303/2305 Combined 3-Channel ECG Holter & Ambulatory Blood Pressure Monitor

Vasomedical-BIOX™ 2304/2306 Combined 12-Channel ECG Holter & Ambulatory Blood Pressure Monitor

Actual Size Shown

Vasomedical is pleased to announce its new and unique synchronized ECG Holter and Ambulatory Blood Pressure Monitors in a single device! The Model 2303/2305 and Model 2304/2306 Combined Monitors provide advanced high resolution ECG Holter technology with color LCD display 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 separate programmable operation modes:
  - Synchronized ECG Holter and ABPM
  - 3 or 12-channel ECG Holter (only)
  - 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

### CONVENIENCE AND EASE OF USE

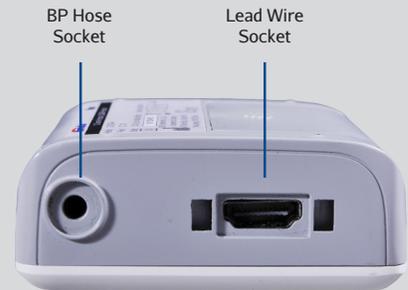
- Color LCD displays measurement results as well as user-friendly icons to simplify task performance and data retrieval
- Easy 3 key push-button setup and fast download/analysis reduce technician time
- Bluetooth data communication (2304/2306) enables quick data transfer and turnaround of the device
- Small and lightweight, resulting in minimum interference with patient activity
- 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

**Vasomedical**™ BIOX

# VASOMEDICAL-BIOX 2303/2305 AND 2304/2306 SPECIFICATIONS

## GENERAL

- ▶ Accessories:
  - 2 GB SD memory card
  - USB SD memory card reader
  - 5 or 7 lead ECG patient cable (Model 2303/2305)
  - 10 lead ECG patient cable (Model 2304/2306)
  - Blood pressure cuff (Standard adult)
  - Recorder user manual
  - User Software CD
  - Carrying case & strap
- ▶ Recording time: 24 Hours (1 - 7 days optional)
- ▶ Storage medium: SD card
- ▶ Memory size: 1 GB or more
- ▶ Data transfer: Bluetooth (2304/2306)
- ▶ Batteries: 2 "AA" size alkaline batteries
- ▶ Dimensions: 4.05 x 2.99 x 1.22 (inches<sup>3</sup>) / 103 x 76 x 31 (mm<sup>3</sup>)
- ▶ Weight: 6.33 oz / 180 g (without batteries)
- ▶ Regulatory compliance: FDA cleared / CE Marked / Health Canada Listed ISO 13485 Certified



Vasomedical BIOX™ 2303/2304/2305/2306  
Top View

## ECG

- |                            | Model 2303/2305                             | Model 2304/2306 |
|----------------------------|---|-----------------|
| ▶ 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 DC offset                |                 |
| ▶ 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<br>1000Hz VLP, 10,000Hz Pace |                 |
| ▶ A/D resolution:          | 12 bit                                      |                 |



Vasomedical BIOX™ 2303/2304/2305/2306  
Front View

## BLOOD PRESSURE

- |                          |   |                          |  |
|--------------------------|---|--------------------------|--|
| ▶ Method of measurement: | Oscillometric                                       | ▶ Accuracy:              | <3 mmHg  |
| ▶ Recording range:       | Systolic: 50 - 255 mmHg<br>Diastolic: 30 - 200 mmHg | ▶ Operation Environment: | Temperature: 41 - 113°F / 5 - 45° C<br>Relative humidity: 10 - 95%<br>Atmospheric pressure: 646.6 - 797mmHg / 86 - 106 kPa |
| ▶ Indicating range:      | 0 - 300 mmHg  | ▶ Recording range:       | Systolic: 50 - 260 mmHg<br>Diastolic: 30 - 195 mmHg  |