

# Universal ECG

PC-based ECG diagnostics complements transition  
to Electronic Medical Records (EMRs)

## Resting ECG System

*With the incorporation of computer-based technology into your office, exciting innovations in digital diagnostic instrumentation have developed. Burdick's Universal ECG can be interfaced with most EMRs making it the ideal choice for physicians looking for tools to help usher the transition to a paperless office.*



### Completely Portable, Easy to Use

The Universal ECG is one of the smallest, lightest electrocardiographs in the world. It is a complete electrocardiograph system, which is portable and easy to use. Simply insert the ECG card into your computer or handheld device to collect, view, record and analyze up to 12 channels of high-resolution ECG data. The Universal ECG is compatible with your favorite off-the-shelf PC, laptop, tablet PC or Compaq iPAQ. Plus it utilizes Microsoft® Windows®-based software for quick, easy operation.



### Instant Acquisition

The Universal ECG displays real-time data on screen and you can view up to 12 channels instantly. Plus you have complete control over settings such as speed, sensitivity and filters, as well as the number and order of channels viewed.

### Robust Data Analysis

The Universal ECG, coupled with Office Medic™ or Pocket Medic Software™, instantly provides you with a narrative interpretation and a full set of measurements. You have the flexibility to either scroll through up to five minutes of unanalyzed data, selecting the 10-second segment you wish to analyze, or simply allow the software to automatically do the analysis.

Changing the channel you are viewing is as easy as clicking on your mouse. Plus you can zoom in on any waveform instantly and use the on-screen manual calipers to take your own measurements.

Unlimited data analysis gives you the flexibility for customized reports. The Universal ECG offers several types including up to a five-minute rhythm strip of all 12 leads simultaneously. Reports are conveniently printed on standard copier paper.

### Network Ready

The ability to store results from the Universal ECG in a patient database located on your network means you can access, distribute and store information anywhere, anytime; even across multiple office locations. Plus you'll have unlimited storage for all your ECG records.

### Diagnostics Integration

The Universal ECG can be easily integrated with your other diagnostic tests. Burdick offers several PC card-based tests, allowing multiple parameters for testing from a single PC, utilizing a single software application and only one patient database. This level of integration is ideal for visiting nurses or anyone who appreciates portability inside or outside the clinic. Think of the cost efficiency of having the Universal ECG, oximeter and spirometer all accessed from the same computer.

### Features

- The Universal ECG is portable and easy to use
- Patient data is instantly and accurately obtained, viewing up to 12 channels
- Unlimited data analysis including the ability to reanalyze data if system parameters are modified
- Network multiple locations to realize the benefits of a standardized ECG management system across your practice
- Enjoy the flexibility of customized reports:
  - 3 x 4 Simultaneous
  - 3 x 4 Sequential
  - Average Complexes
  - 6 x 1 ECG
  - 6 x 2 ECG
  - Measurements
  - Rhythm Strips

**BURDICK®**

# Universal ECG

## TECHNICAL SPECIFICATIONS

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                    |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| Dimensions            | Hub: 85 mm (W) x 91 mm (D) x 20 mm (H)<br>Patient Leads: 39"<br>PC Connection: 3 Meter Cable, DB9 Male<br>10 Lead Cable: 12 Patient Leads<br>Electrode Connections: Either 4 mm "Banana plug" or "Snap-On" connectors<br>Electrode Labeling: Abbreviations and colors to comply with either IEC or AAMI standards<br>Display & Operating Console: Dependent on PC                                                                                                                                                                                                                                                                                                   |                                  |                                    |
| Weight                | 9.9 oz.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                                    |
| Power requirements    | <b>Power Source</b><br>Can be powered by the PC Serial port control lines in most cases, depending on the PC being used. Can draw extra power if necessary from a PC PS/2 port or an external mains adapter.<br>Supply Voltage: 4-16 V DC<br>Supply Current: <17 mA DC<br><b>Filters</b><br>Permanent:<br>High Pass: 0.05 Hz 1st order<br>Low Pass: 170 Hz 1st order<br>Baseline Wander: Baseline reset by adaptive zeroing algorithm<br>User Selectable:<br>Notch Filters: 50 Hz, 60 Hz (Mains Noise Rejection)<br>Low Pass: 35 Hz (Muscle Artifact Filter)<br><b>Report Capabilities</b><br>User selectable report formats<br><b>Display</b><br>800 x 600 minimum |                                  |                                    |
| Acquisition           | Common Mode Rejection: -60dB (minimum)<br>Leads Off Indicators: Connection status for each lead is shown on "Recording ECG" screen<br>Gain/Sensitivity: 5,10,20 mm/m V<br>Sweep Speed: 12.5 mm/5,25,50<br>Input Range: +/- 6 mV<br>Acquisition Sample Rate: 1000 Samples/Second<br>Frequency Response: 0.05 to 175 Hz +/- 3 dB                                                                                                                                                                                                                                                                                                                                      |                                  |                                    |
| Environmental         | <b>Conditions</b><br>Operating Temperature<br>Storage Temperature<br>Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Low</b><br>0°C<br>-20°C<br>5% | <b>High</b><br>40°C<br>70°C<br>85% |
| Conforms to standards | <b>Safety Standards:</b> Complies with ANSI/AAMI EC11; IEC60601-1; IEC60601-1-2; IEC60601-2-25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                    |
| Safety                | <b>Defibrillation Protection:</b> Patient leads are isolated from system and operator with 4kV protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                    |
| Warranty              | Main System 3 years with return of warranty card; Sensors 90 days                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                                    |
| System requirements   | Available Type II PC Card Slot, USB Port or RS232 Port with 128 byte minimum FIFO buffer; Windows 98/ME/2000/XP; a Windows supported printer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                    |

## Warranty and Service Offerings Protect Your Investment

With warranty and service offerings, your investment is protected from unforeseen service costs. The Universal ECG comes with a 3-year warranty when the warranty card is returned. Plus as new software releases arrive, software upgrading is available. Our toll-free technical support is available to answer questions. Onsite parts and labor are also available. Contact your representative to select a program that meets your needs.

## ORDERING INFORMATION

|             |                                                              |
|-------------|--------------------------------------------------------------|
| 92309-01    | Universal ECG, English Version, Non-Interpretive (AHA)       |
| 92309-02    | Universal ECG, English Version, Interpretive (AHA)           |
| 92309-06    | Universal ECG, International Version, Interpretive (IEC)     |
| 92309-07    | Universal ECG, International Version, Non-Interpretive (AHA) |
| 704-0102-00 | Clear Choice Lead Adapters                                   |
| 047029      | CardioSens® Ultra II disposable electrodes                   |

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