



Technology in Practice™

Universal ECG™



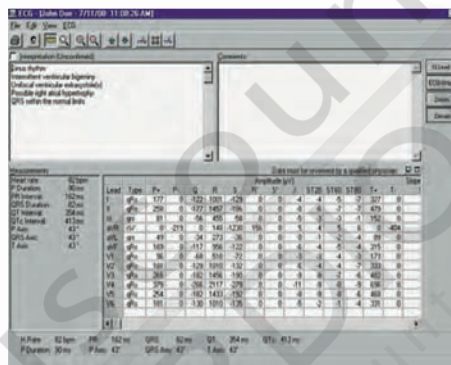
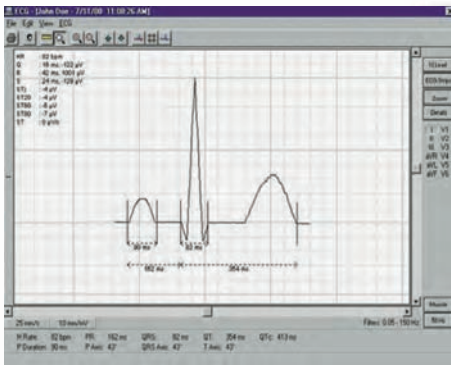
...the smallest and lightest 12-channel ECG on the market. Connect the Universal ECG to any Personal Computer (PC), Laptop, or Pocket PC to acquire, store and analyze up to 12-channels of high-resolution ECG data.

Features:

- Automatic narrative interpretation and measurement analysis using the advanced Louvain Algorithm, which has the **best total accuracy**¹ when compared to leading competitors.
- Print full page reports on standard plain paper in portrait, landscape or A4.
- Review and zoom into data with electronic calipers, enter comments and modify the interpretation before confirming the results.
- Instantly create PDFs or JPEGs of the final report.
- Seamlessly integrate ECG data into your EMR via XML, HL7 and other formats.
- Also available in a 6-channel non-interpretive version.



Connect via Serial, USB, or Card Slot.



The Universal ECG comes standard with everything you need to begin testing:

- Office Medic™ workstation software with interpretation. Manage patients and tests without an EMR. Available in English, French, German, Italian, Spanish, Portuguese and Japanese.
- Pocket Medic™ software for acquiring, analyzing, storing and reviewing 12-channel ECGs on a Pocket PC.
- Office Medic™ IDMS software for networking multiple workstations to one central database.
- MedicSync™ software for transferring or synchronizing data between multiple databases.



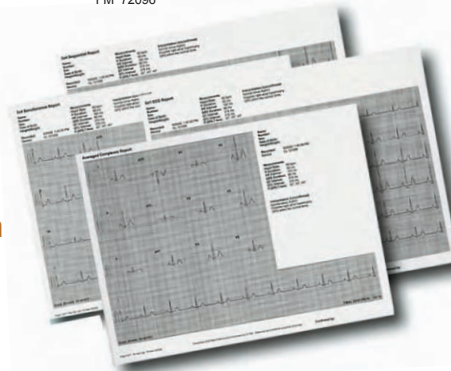
Take a 12-channel electrocardiograph with you wherever you go.



The Universal ECG is CE Marked in accordance with MDD 93/42/EEC.

ISO 13485
FM 72096

Print clear reports the moment you need them on plain paper.



QRS Diagnostic, LLC
distributed by:
Futuremed
15700 Devonshire St.
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info@futuremedamerica.com
Federal law (USA) restricts this device to sale by or on the order of a physician.

¹Willems, J.L., et al., "The Diagnostic Performance of Computer Programs for the Interpretation of Electrocardiograms", New England Journal of Medicine (1991); 325: 1767-1773. Li, G.P., et al., "The New Cardionics ECG Program and Its Comparison with Other Programs", Japanese Heart Journal (1994); 35 (Supplement):257-258. Universal ECG, Office Medic, Pocket Medic, MedicSync, Technology in Practice and the QRS logo are trademarks or registered trademarks of QRS Diagnostic, LLC. ML 116 03/07 Copyright © 2007 QRS Diagnostic, LLC. All rights reserved.

Universal ECG Specifications

Hub Weight	280 - 300 grams (0.62 – 0.66 lb) depending on cable options
Hub Dimensions	85mm x 91mm x 20mm (3.3" x 3.6" x 0.8")
Patient Leads Length	1 meter (3.3 ft)
PC Connection Length	1-3 meter (3.3 – 9.8 ft), DB9 female connector
Patient Leads	6 Lead Cable (4 patient leads) 12 Lead Cable (10 patient leads)
Case Material	ABS Plastic
Electrode Connections	4 mm Banana plug with "tab" or "snap" connectors
Electrode Labeling	Abbreviations and colors to comply with either IEC or AAMI standards
Display and Operating Console	Dependent on PC (supplied by user)
Gain/Sensitivity	5, 10, 20 mm/mV
Input Range	±6mV
Acquisition sample rate	1000 samples per second (compressed to 500Hz with peak picking and averaging algorithm)
Heart Rate Range	20 bpm - 170 bpm
Frequency Response	0.05 to 175Hz ±3dB
Defibrillator Protection	Patient leads are isolated from system and operator, with 4kV protection
Common Mode Rejection	-60dB (minimum)
Safety Standards	Complies with AAMI EC11, EN60601-1, EN60601-1-2, and EN60601-2-25
Leads Off Indicators	Connection status for each lead is shown on Acquisition screen
Power Source	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
Supply Voltage	4 – 16V DC
Supply Current	<17mA DC
Permanent Filters	High Pass: 0.05Hz 1st order Low Pass: 170Hz 1st order Baseline Wander: Baseline reset by adaptive zeroing algorithm
Notch filter (Mains Noise Rejection)	50Hz 4th order Butterworth, 49.1Hz - 50.9Hz, 60Hz 4th order Butterworth, 59.1Hz - 60.9Hz
Low pass (Muscle Artifact Filter)	35Hz 4th order
Report Capabilities	User selectable Report formats
Environmental Conditions	Operating Temperature: 0 to 40° C (32 to 104° F) Storage Temperature: -20 to 70° C (-4 to 158° F) Humidity < 85% (non-condensing)

Universal ECG™ System Requirements

Minimum System Requirements for Desktop, Laptop and Tablet PCs:

Operating System: Microsoft® Windows® XP (Home, Pro, Tablet) or Vista (Business Ed.)
Free Disk Space: 300MB
Connectivity: 1 Available Serial Port, or
1 Available USB Port, or
1 Available CF Card Slot, or
1 Available Type II PC Card Slot

Minimum System Requirements for Pocket PCs:

Operating System: *Pocket PC 2003 (1st or 2nd edition), or Windows® Mobile 5
Host Computer: Personal Computer (PC) running Windows® 2000 or XP (required for installation)
Communication Software: Windows ActiveSync®.
Refer to your Pocket PC Owner's Manual for ActiveSync requirements.
Connectivity: 1 Available CF Card Slot, or
1 Available Type II PC Card Slot, or
1 Available Serial Port

*Note the CE.NET Operating System is not currently supported.