

Cardioline touchECG - key features

touchECG is a high-performance diagnostic ECG system based on the HD+ wireless digital acquisition module. It displays, acquires, prints and stores traces and provides interpretation. It integrates easily into data management and Electronic patient record systems.

touchECG can be standalone or combined into multi-function workstations. It can include all necessary hardware and software, or (subject to survey) may be provided to work on locally-supplied computing hardware and system software.

touchECG on a Windows tablet is an attractive alternative to a complete mobile trolley, for long walks or outreach.

UI, main display formats, interpretation:

- Versatile and intuitive user interface. Display formats -
- Cabrera 3, 3+1, 3+3, 6 or 12 channels in automatic mode.
- 3,6 or 12 channels rhythm strip.
- It can be supplied with Glasgow interpretation.

ECG Processing

- Frequency range 30 - 300bpm
- Sampling rate up to 1000Hz.
- Linear phase digital diagnostic high-pass filter (60601-2-25), 50/60Hz AC interference adaptive digital filter.
- Automatic 12-channel, Manual 3/6 channel, Review 12-channel.
- Standard or Cabrera leads.

Protocols and Stress devices

- Support of upright and prone ergometers, treadmills and mats.
- Range of protocols with the ability to customize.

ECG measurements

- All leads, medians, corrected.
- HR, Average RR.
- PR interval, QRS duration
- QT and QTc intervals (Hodges, Bazett or Fridericia formula).
- Max R (V5); (V6) and S(V1).
- Solokow-Lyon index.
- P,R,T-axis



ECG Management -

- Launch from BDT/GDT.
- Automatic collection of report to ECG Management

Print Management -

- Resolution according to printer.
- Sensitivity/gain 5,10,20mm/mV.
- Auto - 25/50mm/s; 3, 3+1, 6, 12 channel standard or Cabrera, formats 12x1, 6x2, 3x4+1, 3x4+3.
- Manual - 5,10,25, 50mm/s; 3, 6, 12 channel standard or Cabrera, 12x1, 6+6, 3x1.
- Calibration and lead marker.

**Technical Specification**

ACQUISITION HD+	
ECG leads and cables	12-lead (I, II, III, aVR, aVL, aVF, V1- V6), replaceable patient leads
CMRR & dc input impedance	115dB, 100Mohm
A/D converter	24-bit, < 1uV/LSB, 32,000 samples per second per channel
Sample rate for signal analysis	Up to 1000 samples per second
Dynamic range	+/- 400mV
Bandwidth	Performance equivalent 0.05 - 300Hz
Pacemaker detection	Hardware with digital convolution filter
Defibrillator protection	AAMI/IEC Standard
Front-end performance	ANSI/AAMI IEC 60601-2-25:2011
Data transfer	Bluetooth 2.1+ EDR with Secure-Pairing
SYSTEM AND CONNECTIVITY	
Connectivity	Launch by BDT/GDT, Patient ID embedded and worklist Automatic archiving in the connected database To Sentinel data management, SCP-PDF-XML-GDT, DICOM, HL7 option
Computer	Mini tower or all-in-one PC, Windows table. Windows 8.1 or 10, Quad core 1.6GHz or higher, 2GB RAM, 8GB disc, Bluetooth 2.1+EDR. Keypad and mouse LCD screen at least 18", 640x480
Regulatory	Class IIa, Rule 10 annex IX, TUV (1936) 510(K) - K160746, product code DPS, Class II, 21 CFR 870.2340, Risk class B
Trolley	Standard or configured to user requirement
Printer	A4 laser, colour or black & white or thermal
Isolation transformer	Optional
Workstation option	Subject to survey, may be deployed on customer-supplied workstation