

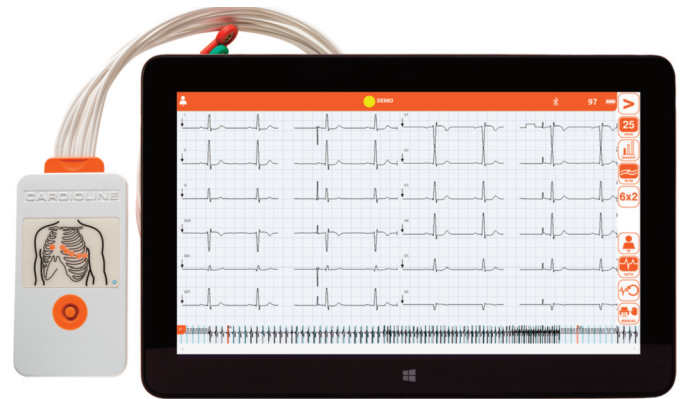
Cardioline TouchECG with HD+

Approved for use with
ECG On-Demand®



Main Features

- Specifically designed for touch tablet or touch-screen PC.
- Bi-directional communication with electronic patient record (EPR) systems.
- Various data export formats and protocols (SCP, DICOM, XML, PDF, GDT, HL7).
- High-resolution quality colour display to show ECG trace in real time.
- High-resolution laser printing with multiple printing formats.
- Long-life battery for all day use.
- Easy to use, thanks to its friendly user interface with option of 'Student' or 'Expert' modes.
- Class-leading Glasgow University ECG interpretation algorithm.



CARDIOLINE

General Overview

The HD+ Bluetooth electro-cardiograph is part of Cardioline's range of connected ECG devices.

HD+ is easy to use thanks to its operator-friendly user interface. The device can be run in either 'Student' or 'Expert' mode.

HD+ has been designed to work with conventional desktop, tablet or all-in-one 'touch-screen' MS Windows computers. Its wireless design allows maximum user convenience in a variety of clinical environments, with an interpretation program that's been developed by Glasgow University which can analyse ECGs from both adult and paediatric patients.

HD+ can be connected to the most common electronic patient record systems such as EMIS Web, SystemOne, Cerner & McKesson. Bidirectional data transfer using DICOM, HL7 & XML means ECGs can be fully integrated into existing workflows in healthcare facilities without the need to enter patient details manually.

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Software TouchECG

Operating Systems	Windows 8 Pro, 32/64 bit
ECG Acquisition	Automatic (10 s), (with full disclosure memory buffer)
Filters	Low and high-pass digital filters AC-interference digital adaptive filter (50/60 Hz) Muscular filter at 25, 40 or 150 Hz
Display	Formats 3x4, 3x4+1, 3x4+3, 6x2, 12x1 – Standard or Cabrera Speed: 50, 25, 10, 5 mm/sec Amplitude: 20, 10, 5, 2.5 mV/mm
Printing Formats	Standard A4 paper Formats: 3x4, 3x4+1, 3x4+3, 6x2, 12x1 – Standard or Cabrera Speed: 50, 25, 10, 5 mm/sec Amplitude: 20, 10, 5, 2.5 mV/mm
Interpretation	Glasgow University interpretation software
ECG Memorization	Unlimited
Connectivity	Standard Network, DICOM (optional)
Exporting Formats	SCP (standard), PDF (standard), XML-GDT (part of the standard connectivity), DICOM (part of the DICOM Connectivity Option) and HL7 (Optional)

HD+ Acquisition Unit

ECG Channels	12 leads (I, II, III, aVR-L-F, V1-6)
CMRR	115 dB
A/D Conversion	24 bit, 32 KHz/channel
Sampling Rate Frequency	500Hz or 1000Hz
Output Data Resolution	20 bit, < 1µV/LSB
Input Range	+/-400mV @ < 1µV/LSB
Bandwidth	0,05 – 150 Hz or 0.05 – 300 Hz
Defibrillator Protected	AAMI/IEC Standard
Pacemaker Detection	Hardware detection coupled with convolution digital filtering
Electrode Failure Detection	Independent for each electrode or channel
Wireless Data Transfer	Bluetooth 2.0+ with “secure pairing”
Patient Cable	10-wire, single connector, replaceable
Voltage Supply	2 x AAA standard cells
Size and Dimensions	115 x 65 x 15 mm
Weight	< 90g with battery
Water Protection	IP42 (with silicone protection cover)
Impact Protection	1m high dropped on any edge, corner or surface (with silicone protection cover)

All-in-one PC on Cardioline Trolley

Dimension and Weight	1400mm h ; 550 x 550mm (base dimension); 15kg
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