

PC Based ECG System

ECG Master USB

Our products reflect the approach “to design ECG for PC”.

So, it is possible to implement “improvements in computer technology” very quickly and effectively into “ECG technology”.

USB connection facilitates a data acquisition path, which is fast enough to have high resolution ECG data, sufficiently flexible to have a plug & play connection to actual PCs, and adequate to supply the ECG device with electrical power.

Using electrical power from the PC, ECG module does not require any batteries or extra power adapters.

Using a very flexible USB controller and interface and driver for our ECG device, our design team continuously develops new software modules and applications.

Our objective is continual enhancement and perfection of our products and services. We have ISO13485 certificate for our quality management system and CE certificate for our products.



PC BASED ECG SYSTEM

PC based ECG system consists of an EKG Master USB module with its patient cable, any kind of PC comprising a USB port, a laser printer and the WinEKG Pro software. The software runs under Windows operating systems, 7-8.1-10.

ECG can be monitored on the PC monitor, saved for reporting, reprocessed and printed.

The user can select and set ECG viewing and printing options through the Setup menu. These options include signal and background colors on monitor screen, channel configuration on the screen and on the print out, sampling rate, and default gain and filter options for screen view and for print-out.

ECG data can be shared under a PACS/ DICOM network; DICOM Worklist, DICOM Query and Retrieve compatible.

Combining ECG device with treadmill, Holter, ABPM, respiratory function analyzer and other computer based equipment on the same computer, you may create your own cardiologic workstation.

Technical Specifications

WinEKG Pro SOFTWARE SPECIFICATIONS

- 12 lead real time
- User selectable display formats: 1 to 12 leads, easy to configure
- Software filters: low pass, high pass and line interference filters
- Signal gain: 5-10- 20- 40- 80 mm/mV
- Time scale: 6,25-12.5- 25- 50- 100 mm/sec
- Data format: SCP-ECG
- Selectable display colors for background, grid, signal &text
- Print out on normal A4 paper: grid printing
- Software available in English and Turkish (other languages on request)
- Patient data entry, DICOM connection

HARDWARE SPECIFICATIONS

- Standard leads: DI-DIII, aVR, aVL, aVF, V1-V6
- Sampling rate: max 4,000 sample/sec
- Frequency response: 0.05 - 300 Hz
- Time constant: 3.2 sec
- Common mode rejection ratio (CMRR): 115 dB
- Sampling sensitivity: Better than 0.4 μ V Resolution:
- 16 bit A/D conversion
- Dynamic range: 12 mV
- Defibrillator protected input circuits and patient cable
- Long term recording and monitoring up to 1 hour
- Leads- off detection
- Pacemaker detection

POSTPROCESSING

- Reviewing and reporting of complete ECG data Precise manual measurements on ECG signals Full disclosure print out
- Adjustable display formats while reviewing

PC REQUIREMENTS

- PC, Notebook or Netbook with USB port (USB compatible)
- MS Windows 7-8.1-10
- Power Consumption: 280 mA max. from USB port
- Suspend Current: Less than 500 μ A
- To be compatible to EN 60950 standard

PATIENT SAFETY

- Patient Leakage Current: Less than 10 μ A
- EN 60601-1 Electrical Safety
- EN 60601-2 EMC
- CE Directive 93/42/EEC



ECG Acquisition module- back view

Our company is ISO 13485:2016 certified by BSI
CE Certification by BSI (2797)

OPTIONAL

ECG Interpretation Software

ORDERING INFORMATION

- 600322 ECG patient cable, clamp type
- 600311 ECG patient cable, banana tip
- 690320 WinEKG Pro Software
- 900010 Millimetric grid ECG Paper, 500 pages pack, A4
- 600340 ECG chest suction electrodes set, 6 pcs
- 600330 ECG metal extremity electrode set, 4 pcs