



PC Based ECG System EKG 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 and ISO9001 certificates 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, XP, Vista or 7. 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 input and amplification characteristics provide very high level characteristics, so that the ECG device can be used for high resolution applications.

ECG data can be shared under a network using ECG- Archive Data Management Software.

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: 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

HARDWARE SPECIFICATIONS

Standard leads: DI-DIII, aVR, aVL, aVF, V1-V6

Sampling rate: max 4000 sample/sec

Frequency response: 0.05 - 300 Hz

Time constant: 3.2 sec

Common mode rejection ratio (CMRR): 120 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 1hour

Dimension: 113x30x80 (mm)

Weight: 300 gr

POSTPROCESSING

ECG Archive- Data Management Software (EDM)

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 2 compatible)

MS Windows XP/Vista/7

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 actual size

ORDERING INFORMATION

700170 EKG Master USB Mini Kit (including patient cable and SW)

600910 USB EKG Mini Module (module only)

600210 Compact trolley

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

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