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a digital circuit for digitizing the ECG into ECG data and to send the ECG data through the connector regarding the ECG means for storing predetermined ECG function software; and,

a portable hand-held multipurpose computerized base unit comprising:

- a second housing;
- a slot disposed within the second housing such that the connector of the preprogrammed cartridge is removably insertable within the slot;
- a display screen disposed within the second housing and for displaying the ECG data as a waveform according to a predetermined scale factor;
- a select control disposed within the second housing to toggle a lead signal displayed on the display screen, the lead signal comprising the lead signal of one of the plurality of leads of the preprogrammed cartridge;
- a joy pad disposed within the second housing and having left, right, up and down arrow keys, the left and the right arrow keys to change the scale factor of the ECG waveform as displayed on the display screen;
- an option menu displayed on the display screen in conjunction with the waveform of the ECG and having a plurality of options regarding the ECG and selectable via the up and the down arrow keys of the joy pad, the plurality of options including:
 - a calibration control option to calibrate an amplitude of the waveform of the ECG against a predetermined reference voltage; and

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a second digital circuit within the second housing for receiving the ECG function software and for programming and controlling the base unit, display screen, select control, joy pad, and option menu according to the software.

2. The medical device of claim 1, wherein the scale factor is such that a plurality of data points of the waveform of the ECG is displayed on the display screen such that for each of a plurality of X values of the display screen, more than one of the plurality of data points of the waveform of the ECG is plotted as corresponding Y values of a plurality of Y values of the display screen.

3. The medical device of claim 1, wherein the plurality of options of the option menu further comprises:

- a grid control option to toggle a displayed grid on the display screen on and off; and,
- a select lead control option to toggle a displayed lead signal displayed on the display screen.

4. The medical device of claim 3, wherein the plurality of options of the option menu further comprises:

- a detect control option to begin display of the waveform of the ECG measured by the analog circuit on the display screen; and,
- a stop control option to stop the display of the waveform of the ECG measured by the analog circuit on the display screen.

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