HeartScreen 60G

3/12 channel diagnostic ECG

CE 0120

Extensive ECG services

▶ Simultaneous 12-lead ECG creation
▶ Automatic and manual operating modes
▶ Graphic LCD for 1-channel monitoring
▶ Reliable high-resolution 3-channel thermal printer
▶ Optional ECG analysis program

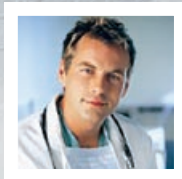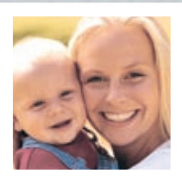### Simple, fast and reliable

▶ Battery operating mode
▶ Intelligent quick-charger
▶ Mobility
▶ Menu controlled functions – simple operation
▶ PC connection ready
▶ ECG record storage

Computer connection possibilities

▶ Complete ECG user-interface on the PC monitor
▶ 3-channel monitoring and storage
▶ Printing on size A4 paper
▶ Database management

Innobase for Windows

Innomed

Perfect ergonomics

With the new Innobase for Windows cardiological database management software the HeartScreen 60G forms an ECG diagnostic center.
The device menu system is easy to use, low learning curve for everyday operation.
Starting programs and main operating modes, settings can be accessed directly from the keyboard, while the logical menu system perfectly fits user habits, requirements.

Device operation is very simple, loading the paper is comfortable and quick, the device battery recharges in a very short time.
All these ease the job of doctors and assistants.
Connected to a computer the records can be stored, all ECG functions can be controlled from the PC and ECG signal monitoring is possible on the PC.

Ideal, portable ECG

The ECG bag provides comfortable storage and safe, shockproof location for the valuable device and accessories. The 60G model's intelligent quick-charger readies the device in exceptionally short time.
With the main elements of the G-family's award-winning design and technical parameters the HeartScreen 60G holds its own exceptionally in the practice. The created record quality is on par with the highest hospital requirements.
Prior to record storage the user can verify the quality of all ECG curves, electrode conformance on the built-in single channel LCD.

Services:

▶ 12 standard leads and Cabrera lead
▶ 12-channel simultaneous data acquisition
▶ LCD display for single channel ECG display
▶ Long life thermal printer (58 mm)
▶ Menu controlled operation
▶ Membrane keys
▶ PC connection ready
▶ Battery pack with charger
▶ Automatic / manual lead selection
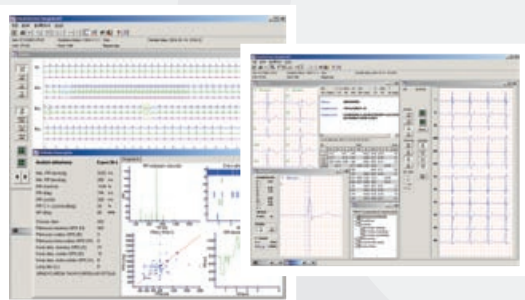▶ Built-in calendar and clock
▶ Analysis program

Options*:

▶ Cardiological database management program with 3-channel monitoring, size A4 printing

The software options operate on Windows 95 / 98 / ME / NT / 2000 / XP and compatible operating systems *

Windows based PC database management

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TECHNICAL DATA

Weight and dimensions
› device: 250 x 150 x 70 mm; 1.2 kg
› charging adapter: 100 x 50 x 40 mm; 0.3 kg

Mains voltage
› 110 V −10% ... 230 V +10% 50 / 60 Hz
› power consumption: 0.3 A / 230 V, 0.6 A / 110 V

Battery type, charging time
› min. 8 x 1500 mAh NiMh rechargeable battery, approximately 2 hours charging time

Operating time with batteries
› min. 6 hours continuous operation in monitoring mode
› min. 30 minutes printing with 2-minute breaks every 5 minutes

Safety information:
› patient leakage current: 10 μA
› safety class: "I", "CF" according to IEC 601-1

Defibrillator protection:
› with defibrillator protected cable

Environmental conditions:
› operating temperature: +0 ... +40 ºC
› storage temperature: -20 ... +60 ºC
› humidity: 20 ... 95% without condensation

ECG
Leads: 12 leads
    Paper speed: 5, 25, 50 mm/sec
Sensitivity: ¼, 1/2 ,1 , 2 cm/mV
Printer paper: heat-sensitive 58 mm wide roll

Printing
› high-resolution thermal printer head
› max. 16 points / mm resolution on the time axis
› printing / lead selection
› 3-channel printing from 12 leads
› printing modes: automatic / manual

Printed data
› ECG record data: date, time
› ECG measurement results: intervals, amplitudes, electric axis, middle values and rhythm curve (only in case of analysis program)

Storage capacity
› 24 patients' diagnosed curves

Controls
› membrane keys

ECG amplifier: according to IEC 601-2-51 and AAMI prescriptions:
› standard 12 leads, parallel, synchron data acquiring and processing
› frequency response: 0.05 Hz – 150 Hz, +0 / -3 dB
› input noise: max. 20 μVpp
› CMRR: min. 100 dB
› DC tolerance: ±320 mV DC
› input impedance typ.: 50 Mohm
› input signal range: ±8 mV

Digital conversion data
Sampling: 12-channel simultaneous, 1000 Hz / channel
A/D converter: 13-bit, 2.5 μV / bit on the input

Pacemaker processor data
› max. pacemaker energy ±700 mV / 2 ms
› pace detector operation min. 2 mV / 0.5 ms ... max. 700 mV / 2 ms

Filters
› 50 / 60 Hz mains interference filter
› muscle filter and baseline filter

Input / Output
› RS 232 isolated active serial I/O

Displays
    Displayed on the LCD:
› 1-channel ECG
› setup parameters
    Displayed on PC monitor:
› 3-channel ECG signal on-line
› device settings

Recommended accessories
› 10-pole patient cable with electrode set

Available programs
› Innobase for Windows database management system
› (min. WIN 95)
› 3-channel printing on size A4 paper

We reserve the right for modifications!