

HeartScreen 112 Visit *GSM*

3+1/12 - channel diagnostic ECG with GSM communication



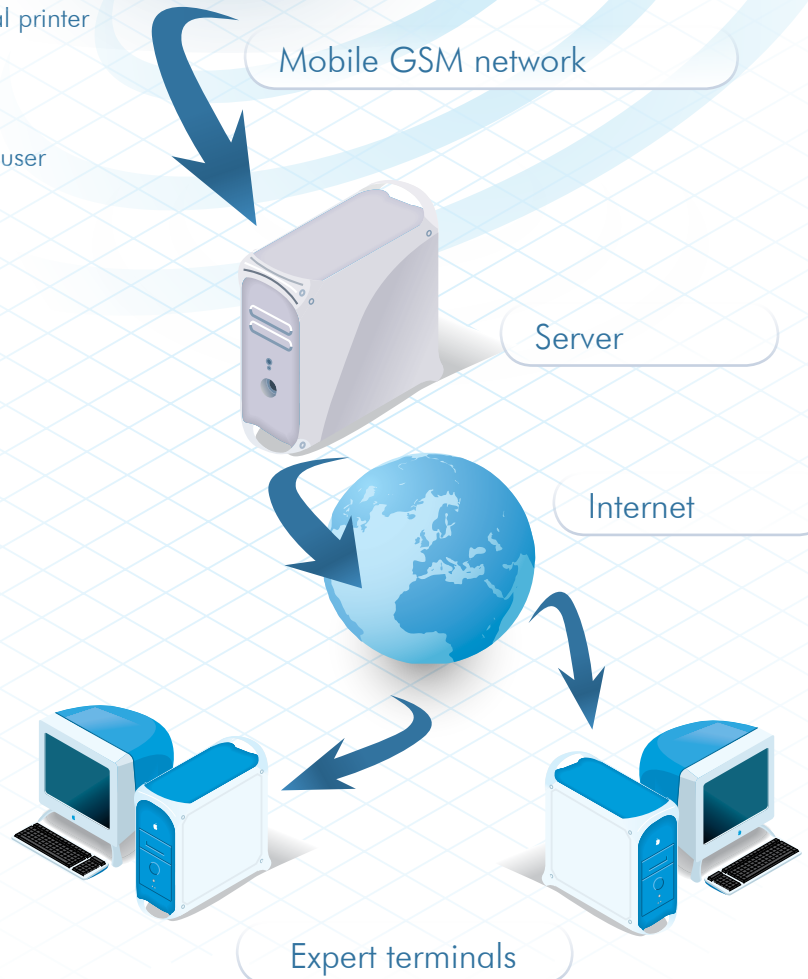
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Complete ECG services

- Simultaneous 12-lead ECG acquisition
- Standard and Cabrera leads
- Automatic, manual and event triggered recording
- User defined ECG protocols
- Backlit graphic LCD for monitoring
- 3 ECG channels and one rhythm curve display
- Reliable, high-resolution 112mm wide, 3-channel thermal printer
- Analysis and diagnosis program
- Arrhythmia program
- Cardiovascular risk management
- GSM based data communication to expert's, or any end user terminals via internet
- "One touch" operation for emergency application
- SSL encryption coding for safety and reliability
- Double functional safety in communication and archiving

Optimized for all practice

- Mains or battery operating mode
- Built-in power supply
- Intelligent quick-charger
- Large storage capacity
- Built-in clock and calendar
- Ideal for mobile or laboratory use
- Dedicated foil keys for quick operation
- Soft key controlled menu functions for more features
- More input data: patient code, sex, age, weight, height, blood pressure
- PC connection ready
- Complete ECG user interface on the PC screen
- On-line 12-channel monitoring and storage capability
- 12-channel printing on size A4 paper
- Database management: Innobase for Windows Expert



Perfect construction

Keeping the main elements and advantages of the previous models the new „Visit“ series has been completely renewed. The model integrates the current high level technology, with the decades of Innomed experience on ECG field.

The high-resolution LCD is capable of displaying 3 normal ECG and 1 rhythm curve simultaneously with different speed. Thanks to the backlit display's more favorable visual effects, the user can easily navigate in the menu, and the results satisfy even the highest clinical requirements and current standards. The ECG-s can be analyzed even without printing due to the high resolution LCD display to save paper costs, and ECG's can be archived on PC later thanks to the increased memory built in the device and the PC based data management system.

The device is easy to operate by the dedicated keys. The most important settings and functions are operated directly from the keyboard, while the menu system perfectly follows more sophisticated user habits, user requirements thanks to the soft key expanded user interface that occasionally appears. The repeatedly validated Innomed analyses and diagnoses program, and the new optional cardiovascular risk management program help the user in decision making and treatment. It informs the user about some of the risk factors for the better care of the patient. The simplicity and speed of the new paper loading system help the assistants' work, and guarantee easier and quicker operation even in emergency cases. The cost effective z-fold paper can be easily handled later, ensures well segmented ECG protocols, and it is more easy to archive it together with other paper documents. To save more, the device has a „paper save“ mode that ensures a real economic operation for the device if paper documents are required.

The GSM based data communication feature creates the possibility to build up an expert system for emergency purposes or helps general practitioners using the Heart Screen Visit GSM device with fast feedback to ensure faster and more optimal examination of the patient.

The PC based central station software is a part of the expert feedback system, it can monitor the ECG records coming in through the GSM, it can archive all records with the physician's diagnoses and it can double the safety of ECG archiving even if it is used by general practitioners at the patient's home. As the PC based SW and it's database is "hanging" on the internet, these data are accessible for dedicated users from any distance around the world with the SSL encryption coding method ensuring the system's safety. The system also archives the ECG records, the physician's diagnoses and comments in a standard database on the internet.



TECHNICAL DATA

Size and weight

- Device: 295 x 225 x 80 mm; 1,9 kg

Power

- 110 V -10%...230 V +10%, 50/60 Hz
- Power requirement: 1A/230 V, 2 A/110 V

Rechargeable battery type, charging time

- 8 x min. 2700 mAh NiMh, approx. 2-hour charging time

Operating time with rechargeable batteries

- 8 hours continuous operation in monitoring mode
- 60 minutes printing with 2-minute breaks every 5 minutes

Safety class

- Class "I", "CF" according to IEC 601-1

Defibrillator protection

- With defibrillator protected cable

Environmental conditions:

- Operating temperature: +0 ... +40 °C
- Storage temperature: -20 ... +55 °C
- Humidity: 20 ... 95% without condensation

ECG

- 12 leads, acquired and processed simultaneously
- Sensitivity: 1/4, 1/2, 1, 2 cm/mV
- ECG section: according to IEC 601-2-51
- Sampling frequency 1000 Hz/channel
- Resolution 13 bit, 2,5 μ V/bit
- Frequency range: 0,05 Hz-150 Hz, +0/-3 dB
- Input noise: max.: 20 μ Vpp
- CMRR: min.100 dB
- DC tolerance: \pm 320 mV DC
- Input impedance: tip. 50 MOhm
- Input signal range: \pm 8 mV

Pacemaker

- Tolerance max. \pm 700 mV / 2ms pacemaker energy
- Pace detector operation min. 2 mV / 0,5 ms, max. 700 mV / 2ms

Filters

- Baseline filter
- 50/60 Hz mains interference filter
- Muscle filter

Printing

- Auto, manual and event triggered mode
- Paper speed: 5, 25, 50, mm/sec
- Printer paper heat-sensitive 112 mm wide, 150 mm length, 300 sheets/package, folded
- 3-channel printing from 12 leads

Controls

- Foil keys
- Soft keys
- Remote function

Input / Output

- RS 232 isolated serial I/O active, 57600 baud

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