ECG networking
The ECG-net is an information clinical system, composed of a number of ECG units and PCs, all LAN connected to a central server, where patient clinical data and ECG tests are automatically stored. ECG networking is the base for implementing a Central Referral System and streamlining the workflow associated with ECG data, from acquisition to final report.

The ECG test will be transmitted by ELAN to the Cardiologist's PC workstation to be reviewed, signed and finally sent back to the patient. Instead of physically moving ECG printouts inside a hospital, just one click and a few seconds are all that's needed to transmit data via LAN and/or phone line.

The Central Referral System can be implemented with CARDIOLINE® RECORD software and ELAN units in a client/server or web-based architecture. Thanks to its compliance with SCP standards, ELAN can also be integrated with existing hospital information systems.

Digital 12 channel electrocardiograph

Technical specifications

- Channels: 12
- Leads: 12 standard leads, ventricular and unipolar chest leads
- Frequency response: 0.05-150 Hz (-3 dB)
- Power supply: 115 V ± 10% - 60 Hz, or 230 V ± 10% - 50 Hz
- Display: Backlight LCD screen 320 x 240 pixels (1/4 VGA)
- Display knobs: 1 to 12 channel selection, patient data, date, alarm and system messages
- Batteries: Built-in rechargeable batteries with automatic switch off
- Keyboard: 45 alphanumeric and 15 functional keys
- Memory: 12 hours patient monitoring, 2 hours previous
- Dimension & weight: 376 x 493 x 115 mm, 5.8 kg
- Norms: IEC 601-1 (Ed.1988); IEC 601-1-1 (Ed.1992); IEC 601-1-2 (Ed.1993); IEC 601-1-4 (Ed.1996); IEC 601-2-25 (Ed.1995);
- Consumption: 50 VA max
- Wiring system: Dots/mm thermal head on 210 mm paper in Z-fold packs
- Frequency response: 0.05-150 Hz (-3 dB)
- Writing system: Dots/mm thermotransfer paper
- Directives: 89/336/CEE (Ed.06/93); 73/23/CEE (Ed.02/73); 90/38/CEE

FEATURES

- Patient & ECG test management software and ELAN units in a client/server or web-based architecture.
- ECG & Clinical Data Management software for ECG networking, featuring LAN, serial, modem, GSM modem and satellite communication. Available in client/server or web-based architecture.
- ECG printouts inside a hospital, just one click and a few seconds are all that's needed to transmit data via LAN and/or phone line.
- ECG networking is the base for implementing a Central Referral System and streamlining the workflow associated with ECG data, from acquisition to final report.
- The ECG test will be transmitted by ELAN to the Cardiologist's PC workstation to be reviewed, signed and finally sent back to the patient. Instead of physically moving ECG printouts inside a hospital, just one click and a few seconds are all that's needed to transmit data via LAN and/or phone line.
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ELAN OPTIONAL PROGRAMS

- ECG Measurements and Interpretation
- Stress Test
- Arrhythmia Monitor

ACCESSORIES

- Cart: specifically designed with ELAN fixing system, four special casters with foot-brake, plastic handle, wire basket stowage for paper and accessories, patient cable support and optional LCD monitor arm
- Carrying bag: specifically designed to protect the ELAN unit in transit or during use, strong waterproof fabric, special foam protection for patient connector, shoulder strap or handstrap

PC SOFTWARES FOR ECGS COMMUNICATION AND NETWORKING

- Software: windows™ for real-time visualization and management of ECG tests on PC.
- RECORD Server: ECG & Clinical Data Management software for ECG networking, featuring LAN, serial, modem, GSM modem and satellite communication. Available in client/server or web-based architecture.
ELAN is a 12 channel cardiological monitor that can transmit the patient’s ECG signal to a central monitoring unit. And with the Arrhythmia Monitor Option, arrhythmic events can be automatically recorded.

ELAN is a complete solution for the cardiology clinic: from Rest ECG to Stress Test, the unit is a powerful and complete cardiological workstation, usable as stand-alone unit or connected to a PC.

ELAN is the perfect ward electrocardiograph, traditional to use and ready to go, but with highly innovative performance and communication capacities.

ELAN integrates with hospital information systems, communicating with surprising facility through any channel, from a LAN to the telephone system, without complicating routine work.

With ELAN it is simple to create an ECG Network by using CARDIOLINE® client-server software solutions, or integrating it directly with existing Clinical Data Management Systems.

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A key for each operation

Consult Archive
The LIST key displays the instrument’s internal archive, including patient lists, stored ECG tests, referrals received from the Central Referral System.

Patient Monitoring
The MONITOR key displays the patient’s electrocardiogram and heart rate, and with the Arrhythmia Monitor Option, any arrhythmia alarms are displayed and recorded.

Analyse and report
The FREEZE key “freezes” 10 seconds of the signal on the display, starts or modifies the automatic analysis, prints and saves the test, or mails it immediately.

Communicate
The SEND key can be used to connect to the ECG Network through the selected channel (LAN or modem), and to send the last test or all the tests in the archive to the Central Referral System.

Just one key for recording ECG

The START key starts registration of the ECG test in manual or automatic mode, or in the new wizard mode, which allows a Personalised Mode to be added to the instrument, with name and functions selected by the user. Each time the START key is pressed, the unit guides the user through all the steps defined, automatically skipping those that are unnecessary. From patient data entry, interpretive signal analysis and printing in a pre-selected format to saving and finally transmitting by LAN or modem.

A truly simple interface

The high-resolution LCD screen and a knob make it very easy to use. The monitor displays 12 ECG channels at a time, and the knob can be used to quickly progress from one group of channels to another, and to modify sensitivity and trace speed. It is also possible to consult the list of stored ECG tests and review the trace and diagnosis of an earlier test.