

# CardioStation

Cardiac Diagnostic System

It is constituted by the **CardioSmart**, Smart System of Holter in Windows, and by the various configurations of the computer<sup>\*\*\*</sup>.

These configurations are pre-set, though flexible, and can be easily modified, allowing various combinations, according to the needs of each client.

**CardioStation**, Cardiac Diagnostic System, allows also, through coupling of software modules, the performing other diagnostic methods, besides Holter, such as:

dECG, Events in LOOP, Internet transmission of recordings and reports - CardioNet Server does not need a static IP, reducing costs and improving the operation.



\* Hardware configurations are updated periodically without previous notice.

## CardioStation CSS 930

### OFFICE CSK 530 System\*\*

- + Computer level I
- + LCD Monitor 15"
- + Laser Printer

## CardioStation CSS 940

### PROFESSIONAL CSK 540 System\*\*

- + Computer level II
- + LCD Monitor 17"
- + Laser Printer of high speed

## CardioStation CSS 950

### INSTITUTIONAL CSK 550 System\*\*

- + Computer level III
- + LCD Monitor 19"
- + Laser Printer of high speed

\*\*\* All systems come with a digital reader.



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**CardioStation**  
Cardiac Diagnostic System

**CardioSmart**  
Smart Holter System

Cardios ratifies once more its tradition of technological leadership offering advanced products with the highest quality to its clients.

CardioSmart presents an intelligent line of Holter systems for Windows, developed and tested in collaboration with key professionals of the field, resulting in an Analysis System that combines high performance, trustworthiness and versatility with a great variety of features and applications.

This allows for the user to interact with the software, optimizing his work time and analysis results. Data processing and results emission are agile and accurate, providing fastness and security.

The **CardioSmart** Holter Systems include a digital reader.

Cardios' softwares offer an exclusive advantage for a single license: the possibility to be installed in more than one computer, not for simultaneous use.

That is very useful for those who work at different places and for those who travel frequently. In these cases, it's only necessary to bear the Mobile License with you so that it could be installed on the computer used to work, regardless of being a desktop or a notebook.

With this feature and through CardioNet softwares, the doctor can receive recordings sent by his patients, analyse and send them, all through the internet anywhere.

See our main levels of software for Holter analysis:

#### CardioSmart OFFICE CS 530

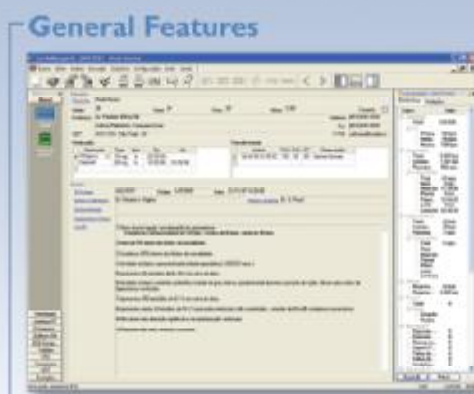
- Software for modules management "CardioManager"
- Software for Holter Analysis S 530 for Windows

#### CardioSmart PROFESSIONAL CS 540

- Software for modules management "CardioManager"
- Software for Holter Analysis S 540 for Windows
- Software for RR variability at time and frequency domain
- Software for attainment of 12 leads ECG through the 3 orthogonal leads

#### CardioSmart INSTITUTIONAL CS 550

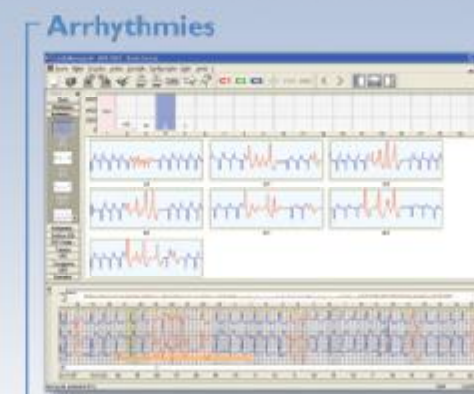
- Software for modules management "CardioManager"
- Software for Holter Analysis S 550 for Windows
- Software for RR variability at time and frequency domain, graphics with editing and configuration tools
- Software for attainment of 12 leads ECG through the 3 orthogonal leads
- Software for Pacemaker Analysis
- Software for Loop events
- CardioSeven software for analysis of up to 7 days of Holter recording
- CardioNet Server software for recordings reception and reports transmission through the Internet



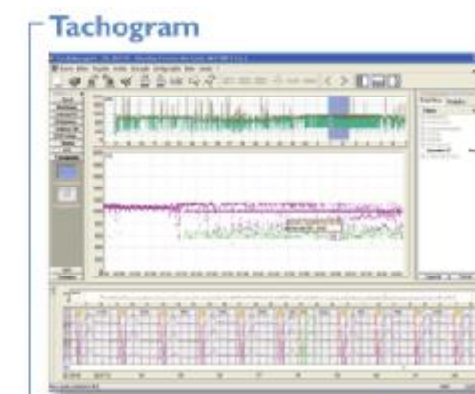
The system keeps the registry of patients, doctors, medications, etc., leaving it open to any further alterations. Besides storing all necessary parameters for the analysis of tests, it holds a bank of smart sentences for the preparation of clinical reports.



It displays the analysed forms, divided in groups: Normal, Ventricular, Pacemaker, Others and Artifacts. It allows users to edit forms that are preselected by the system.



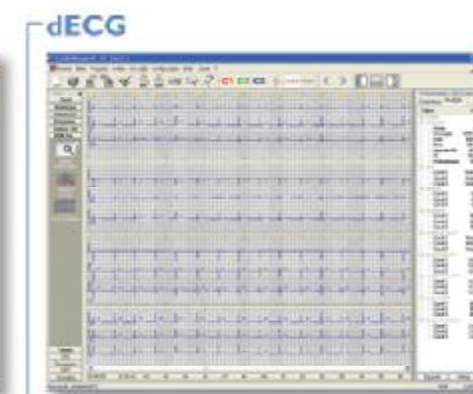
It presents histograms showing the amount of events per consecutive heartbeats in the occurrence of Ventricular or Supraventricular arrhythmies. Periods of Tachycardies / Bradycardies, Pauses and ST changes.



Tachogram of all RR intervals, as well as atrial and ventricular pacemaker spikes. It allows to review the whole 24h and specific periods from 30 sec to 24h. Pop-ups with data of the selected period - ECG bar at the bottom of the screen for verification.

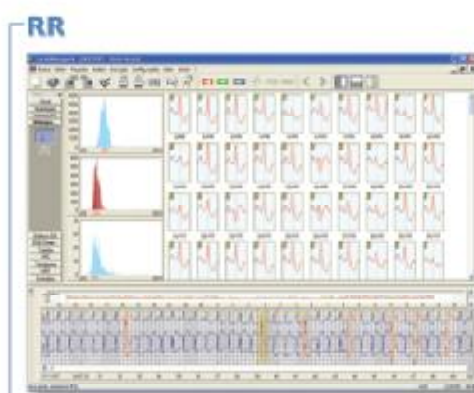


Pacemaker analysis software with configurable analysis parameters related to pacemaker characteristics.

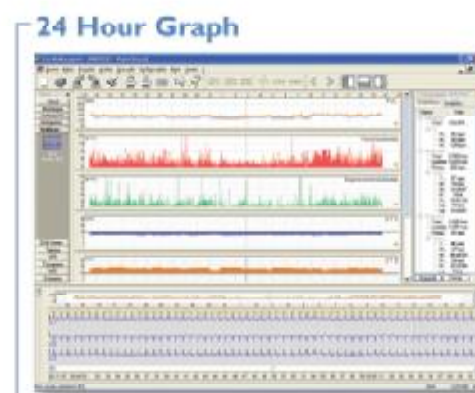


12 leads ECG from the 3 orthogonal leads(X Y Z) at any time of the recording.

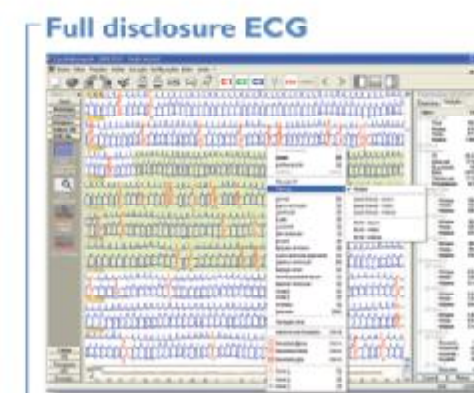
# Smart Holter System



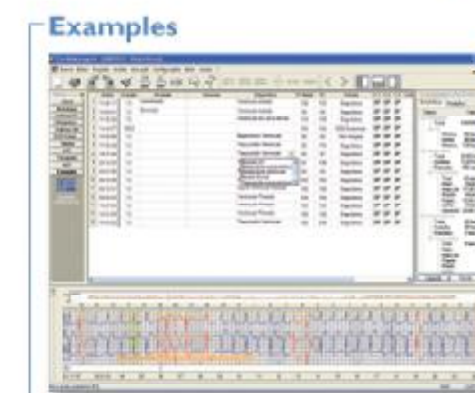
It allows to detach histograms by class of coupling between RRs: normal-normal, normal-ventricular or ventricular-ventricular. It is also possible to reclassify one or more QRS through editing tools.



It presents the Heart Rate behavior, VPBs, SVPBs and ST changes in the three channels during the 24h test. Besides, it takes measurements and reaches specific hours with the cursors.



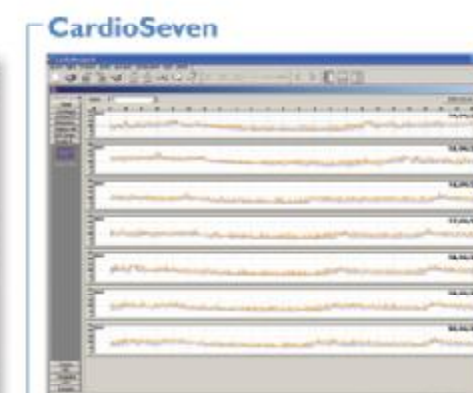
In the Full disclosure ECG it is possible to review the full record, from beginning to end, besides selecting specific periods and reclassify them when needed.



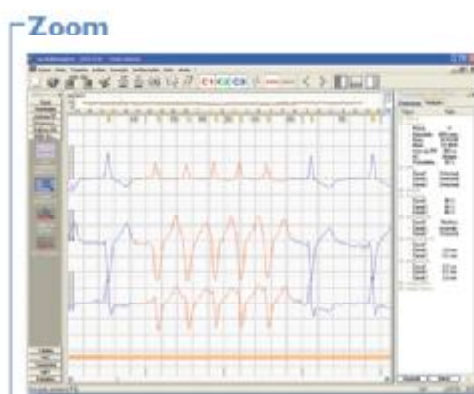
Configurable databank of symptoms, activities and diagnostics for labelling the examples. Configurable print density and length.



A system for the sending of Holter records and receiving clinical reports via Internet.



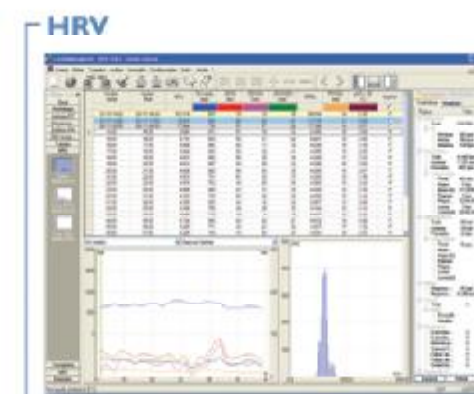
Seven days continuous Holter recording analysis system of 3 ECG channels.



Amplification of the ECG at different levels for better viewing or to make specific measurements.



Highlighting in red and green the maximum and minimum values of any topic. By selecting an specific cell it's possible to access the complete list of the events of such cell.



It indicates the data of the hourly variations of Heart Rate. Colored tables, graphs and histograms of the different parameters in the Time and Frequency Domain. Through the Roll-over tool it's possible to evaluate the HRV continuously in short periods of time, minute by minute.



After the full analysis of the test, the CardioSmart software allows the printing of the reports with all the alterations and reclassifications made by the physician.

**More Than 1.200.000**  
Holter recordings analyzed every year in  
Brazil with our equipments.

**More Than 180.000**  
of them were transmitted through  
Internet.