

Ergometers

You can connect all CARDIOLINE® cycloergometers and treadmills to realclick, and automatically monitor the programmed exercise protocol.

And if you want to use another ergometer, just check if its in the compatible devices list.

Vacuum electrodes

realclick can be used with the CARDIOLINE® velvet vacuum system which guarantees a fast connection to the patient and maximum electrocardiogram signal quality.

Technical specifications



ECG Acquisition

ECG leads	12 standard leads
Acquisition	2000 samples per channel; 12 bit resolution; LSB 2.5 mV; frequency response 0.05Hz – 150Hz
Real-time transmission	Via USB port to the PC with a dedicated cable
Patient cable	10 wires patient cable with banana terminals (clip optional)
Dimensions & Weight	110 x 83 x 17 mm and 110 g.

Rest ECG

Type of ECG display	6 peripheral leads, 6 precordial leads, 12 leads, free combination of 1 to 12 leads
Display speed	6.25, 12.5, 25, 50, 100 mm/s
Sensitivity	5, 10, 20 mm/mV
Filters	Muscle (25, 30, 35 Hz), anti-drift, mains
Alarms	Maximum HR, minimum HR
Print formats	6x2 channel, 12 channel, 3x4 with rhythm channel
Database	Standard SQL
ECG Memorisation format	Standard SCP
Export format	PNG/JPG images, GDT/BDT format, SCP format
Communication output	Trace and patient data forwarding by: serial port, modem, LAN, e-mail.

ECG Analysis (optional)

Analysis window	10 seconds on 12 leads
Parameter calculation	Overall values, table of values per lead, mean beats for the 12 leads with modifiable markers
Automatic interpretation	Diagnostic suggestion normal/abnormal, rhythm analysis, morphology analysis.

Stress Test (optional)

Parameters displayed	HR, maximum theoretical and % HR, Blood Pressure, Double product, Load, Timers, Mean beats and ST values for the last step
Test saving	10 second streeps at end of step, any additional streeps saved by the user
ST segment analysis	Automatic analysis of the ST segment on the 12 leads at the end of each step or as commanded by the User, ST at the J point and J=x point, ST segment gradient, maximum ST depression
Alarms	HR as a predefined percentage of theoretical HR, ergometer communication
Print formats	12 channels+AVG, 6+6+AVG
Ergometer management	Fully automatic Extensive list of compatible treadmills and cycloergometers
Effort protocol management	Extensive list of effort protocols already preloaded in the program. Possibility of defining and saving custom protocols for Cycloergometer, treadmill or generic.
Cycloergometer, treadmill or generic	Customised protocols for cycloergometers, treadmills or generic devices
Print document	Fully customisable (Cover, Step table, ST measurement table, Load trend, Heart rate, Pressure, Double product, ST measurements, ECG Traces).



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CARDIOLINE® realclick

The simplest and most powerful solution for Resting and Stress Test ECG

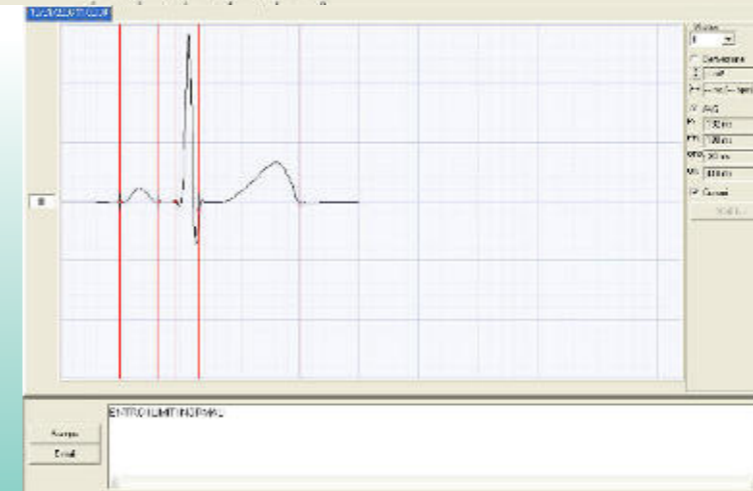
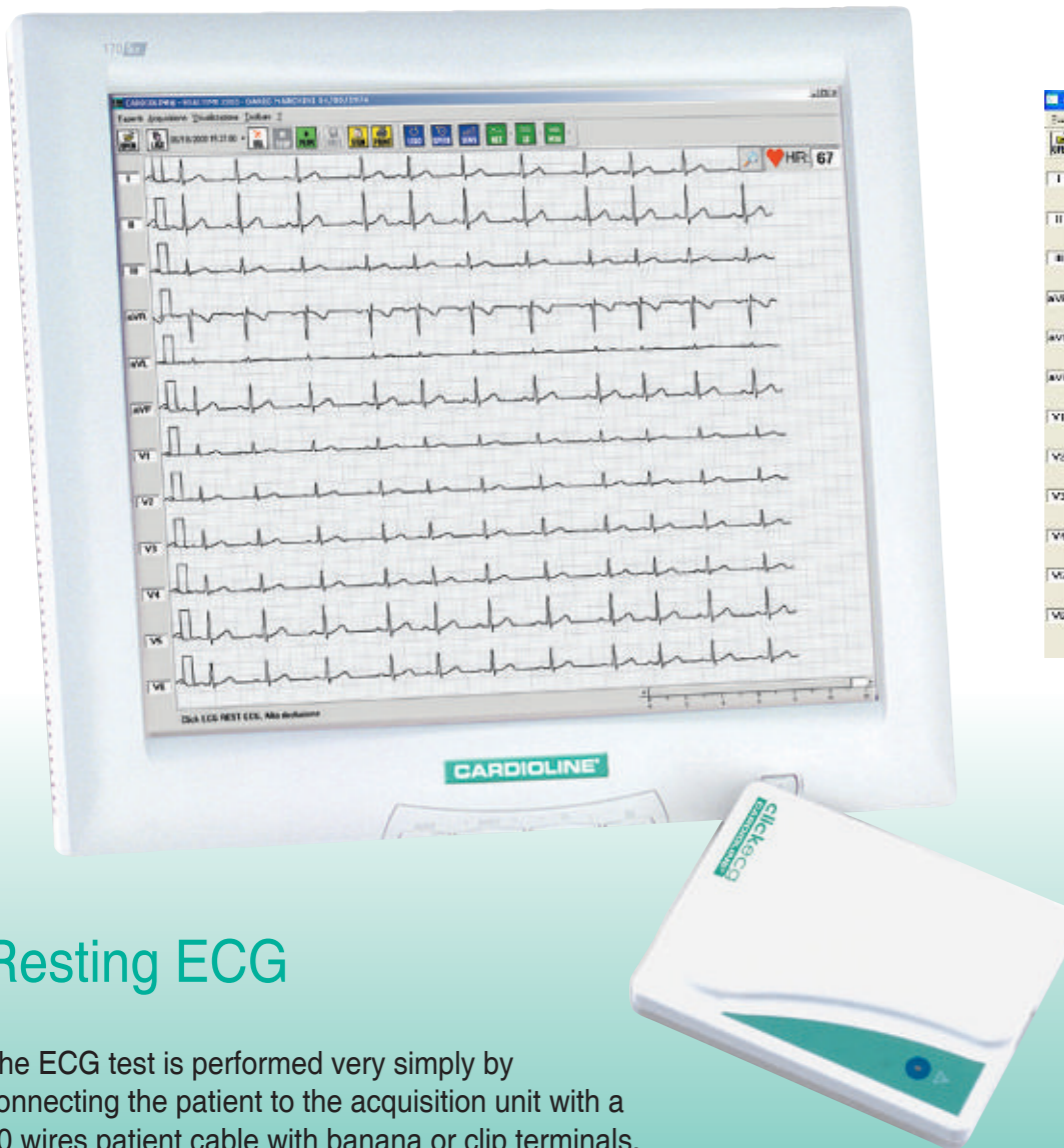


realclick is the simplest and most powerful solution for PC based electrocardiography. The active patient cable is connected via USB to the PC software to display, save, analyse, print and send tests over the internet. And with an ergometer, exercise tests are also immediate.

The simplest and most powerful solution for Resting and Stress Test ECG.

realclick is a diagnostic PC based ECG consisting of a lightweight ECG acquisition unit connected via USB to a computer, and a program that allows the ECG signal to be displayed in real time. The software includes an ECG analysis program and an SQL database to store patient data and tests.

realclick prints the ECG test on a laser printer using traditional standards in a clear and compact format. A simple interface also allows the user to send a test by e-mail, or to other programs.



Resting ECG

The ECG test is performed very simply by connecting the patient to the acquisition unit with a 10 wires patient cable with banana or clip terminals.

The ECG trace is displayed in real time on the PC monitor, and can be saved or printed with one simple click.

Easy to use graphic tools allow the user to make manual measurements on the trace, and compare all parts of it with the patient's previous tests.

All patient data and ECGs are immediately stored in the electronic archive.

Changes and printouts are always accessible in all the formats you want.

ECGs can be transmitted to other PCs over the internet in standard SCP format or as JPG images. A simple way to have a second opinion in a few minutes.

Stress Test

This option allows a complete exercise test to be made, with automatic management of the ergometer and the possibility of defining customised protocols.

All the relevant parameters of the ST segment are calculated at each step of the program, and the mean beat and markers for each lead are displayed.

After the test all the stored data can be displayed, and a complete report of the ST measurements together with graphs of all the clinical parameters measured during the test can be compiled and printed out.

ECG Analysis

This Option adds automatic calculation of the ECG parameters and a suggested diagnosis. Measurements can be directly monitored and changed on the mean beat, and the results compared with previous analyses.