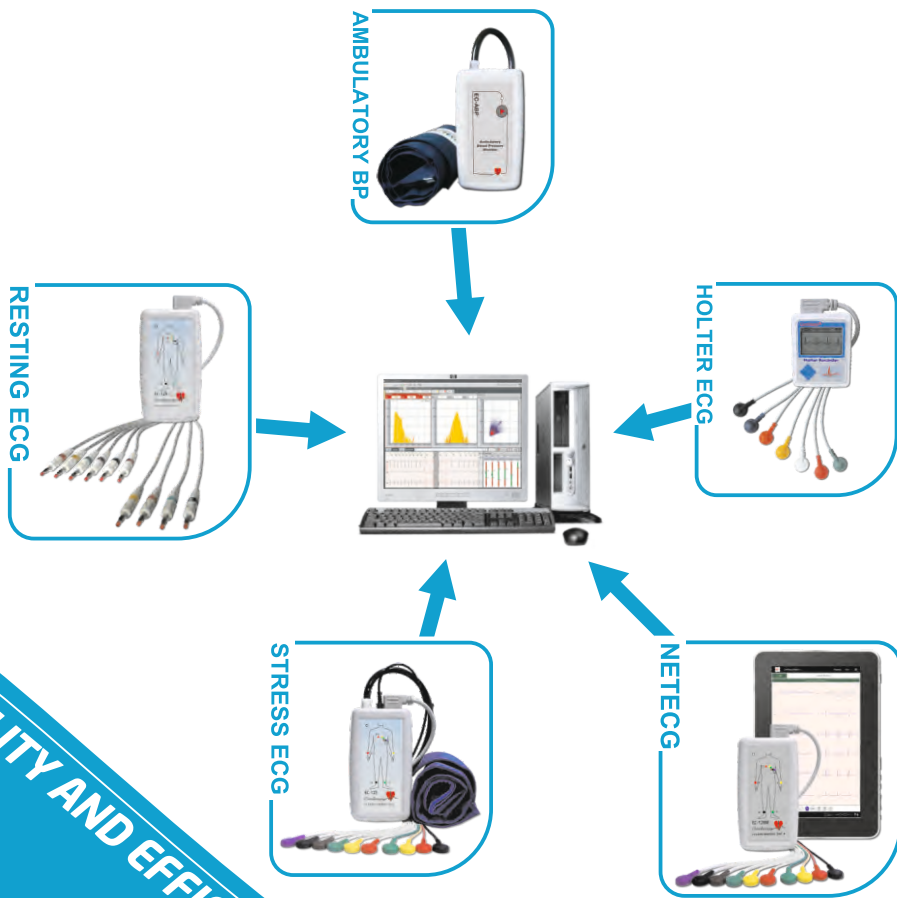


PC BASED ECG SYSTEMS



QUALITY AND EFFICIENCY
SINCE 1990

ABOUT US

Made in Hungary

Labtech Ltd. is an innovating, Hungarian and Japanese owned company established in 1990, dealing with developing and manufacturing PC-based ECG Systems.

Our products are used for monitoring and analysing the heart's activity and its electronic signals, these are mainly ambulatory (Holter) ECGs and Resting and Stress Test ECG Systems. Our main activities are manufacturing the products and develop their analysis software, in addition to this we also maintain a sales and administration team.

Our user-friendly products are easy to wear, battery operated, made with the newest wireless up-to-date technology, building a perfect system with a Windows based computer. One of our newest developments is the Android-based product line which provides telemedicine solutions with any Android-based system such as a tablet or smartphone.

High quality and the satisfaction of our clients are guaranteed by our quality assurance certifications: ISO 13485. All our products are CE marked in line with the relevant EU Medical Devices Directive 93/42/EEC. Our holters and software have FDA licence in the USA.



Release date: 18-07-2012
Revision date: 14-08-2018
Version number: v1.9



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CE
1011

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Directive 93/42/EEC (CE)



EC Attachment



ISO: 13485:2016

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Our company is licensed in more than 25 countries, such as Japan, EU, USA, China etc.

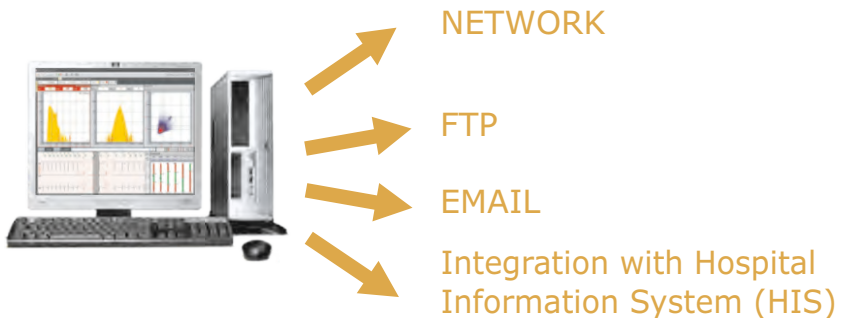
INTEGRATED SOFTWARE

CARDIOSPY® SOFTWARE



- INTEGRATED DATABASE
- NETWORK FUNCTION
- **DICOM, GDT, MFER, HL7** FORMATS
- WINDOWS 7, 8, 8.1 AND 10 COMPATIBLE
- REGULAR AND FREE SOFTWARE UPDATES

The Cardiospy integrated software is the perfect solution for every type of cardiologic examination, be it a simple resting ECG examination, ambulatory blood pressure analysis or a stress test ECG examination. Its integrated database enables that all clinical data is stored and managed on the same interface, this way it increases operational efficiency and improves patient care.

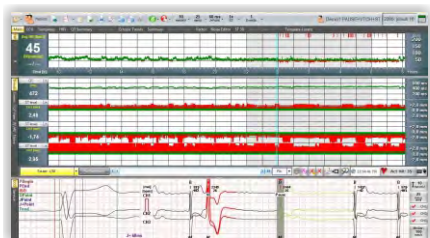


CARDIOSPY®: Registered trademark; 008760092

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INTEGRATED SOFTWARE

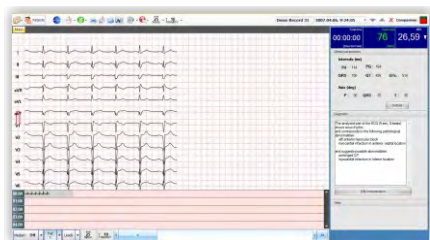
CARDIOSPY® SOFTWARE



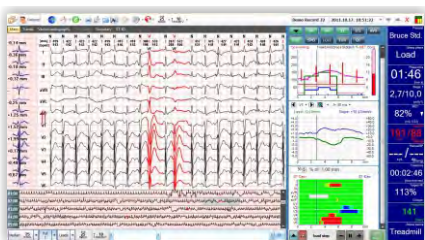
HOLTER ECG SOFTWARE



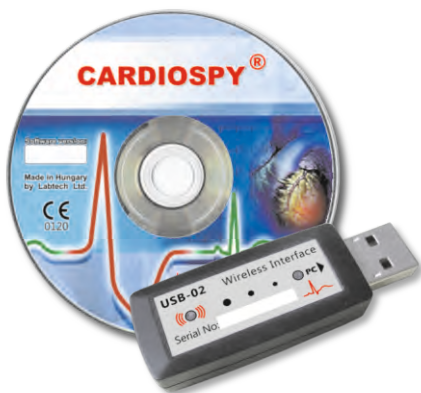
AMBULATORY BP SOFTWARE



RESTING ECG SOFTWARE



STRESS TEST ECG SOFTWARE



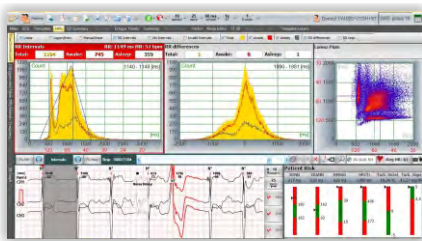
All of our devices communicate using a mini USB-02 interface key with Bluetooth technology. This ensures **fast PC connection**, and **wireless technology** eliminates the inconvenience of using extra cables. **Network operation** is available with all our ECG systems, only one USB-02 needs to be operated in a network environment. This function **increases work efficiency** and it is a very **cost-effective solution**.

HOLTER SYSTEMS

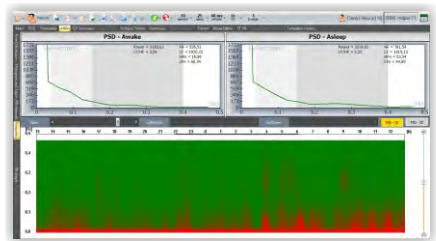
HOLTER SOFTWARE

- SIMPLE, USER FRIENDLY SOFTWARE WITH VARIOUS EDITING FUNCTIONS
- FAST RECORD ANALYSIS
- COLOUR CODED GRAPHS
- VARIOUS HOLTER REPORTS
- **DICOM, GDT, SCP, HL7** FORMATS
- LOCAL, NETWORK OPERATION
- EXPORT, IMPORT FUNCTIONS

- EFFECTIVE NOISE, MUSCLE AND BASELINE FILTERS
- PRECISE QRS CLASSIFICATION, HEART RATE ANALYSIS
- QRS TEMPLATE CLASSIFICATION (DEMIX AND WATERFALL)
- ARRHYTHMIA ANALYSES, ARRHYTHMIA OVERVIEW
- BUNDLE BRANCH BLOCK AND AV BLOCK DETECTION
- ST LEVEL AND SLOPE ANALYSIS
- **P-WAVE, PQ, QT** ANALYSIS
- HEART RATE VARIABILITY ANALYSIS (TIME AND FREQUENCY DOMAIN)
- HEART RATE TURBULENCE ANALYSIS
- **ATRIAL FIBRILLATION** AND FLUTTER ANALYSIS
- MICROVOLT **T-WAVE** ALTERNANT
- **PACEMAKER** ANALYSIS
- BP RECORD ANALYSIS USING MULTIPLE COMPUTED PARAMETERS AND GRAPHS
- OBSTRUCTIVE **APNEA** DETECTION



HRV TIME DIAGRAM



HRV FREQUENCY DIAGRAM



12 CHANNEL DISPLAY

Quick check before recording starts

As the recording starts, we can immediately check electrode-skin contact and the quality of ECG signals in the software.

ECG signal filtering to improve signal quality

Using an effective digital filtering technology, there is practically no baseline movement. The smoothing filter removes muscle and network noise components from the signals without distorting QRS complexes.

Saving time with automatic noise detection

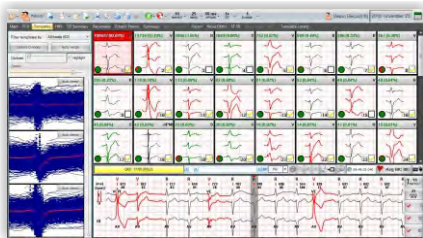
There is no need to view or analyse the record more than once to exclude noisy channels or noisy sections from the analysis. The software automatically excludes the noisy sections, saving a significant amount of time.

Channel selective QRS detection to reduce the number of lost intervals

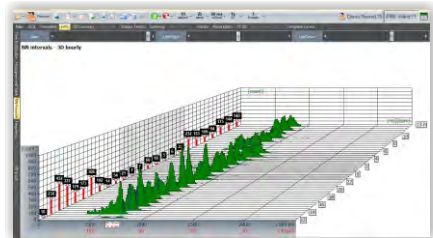
Due to channel selective QRS detection, the number of lost intervals will be reduced. In case of multichannel records the QRS detector can select one or more ECG channels for beat detection.

Effective template analysis for high precision in results

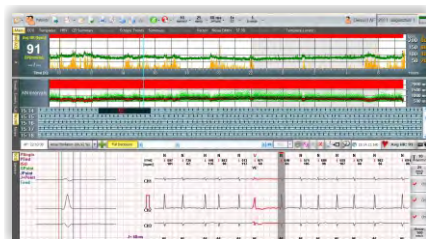
It allows a quick and effective way to check and, if need be, modify QRS types and form classifications. This solution enables a holter record to be evaluated in an average of 5-10 minutes.



TEMPLATE VIEW



NN INTERVALS- 3D



ATRIAL FIBRILLATION VIEW

HOLTER SYSTEMS

EC-2H | EC-3H | EC-12H, 1-2-3-12 CHANNEL ECG HOLTER SYSTEMS (BLUETOOTH)

- FULL DISCLOSURE AMBULATORY ECG RECORDS
 - **1, 2, 3 INDEPENDENT-, OR 12 CHANNELS**
 - COMPACT SIZE, LIGHTWEIGHT
 - LCD DISPLAY
 - WIRELESS (BLUETOOTH) COMMUNICATION WITH PC
 - **TWO INDEPENDENT PACEMAKER CHANNELS**
 - PATIENT EVENT BUTTON
 - **3D ACCELEROMETER FOR MOVEMENT DETECTION**
 - **RESPIRATION FUNCTION**
 - NETWORK AND WEB BASED USAGE POSSIBLE
-
- SAMPLE RATES 125-250-500-1000 Hz
 - HIGH DC OFFSET VOLTAGE $\geq \pm 600$ mV
 - HIGH DYNAMIC RANGE $> \pm 18$ mV
 - CALCULATES ST, QT, AF, HRV, HRT, MICROV-TWA
 - HIGH CMRR > 110 dB



EC-12H

With Labtech Holter ECG systems you can make 1, 2, 3 or 12 channel recordings depending on the recorder and patient cable type being used. The Cardiospy analysis software provides ECG records of excellent quality. The effective automatic evaluation and editing functions provide evaluations with nearly 100% precision in the shortest possible time. The program performs rhythm, ST, PQ, QT, Atrial Fibrillation and Flutter, BBB and AV blocks analysis, time and frequency based HRV, and it calculates HRT and microV-TWA parameters as well. Our software is highly user-friendly: it offers a wide range of report editing and printing options, it is suitable for network usage, and provides a wide range of languages to choose from.



EC-2H



EC-3H

HOLTER SYSTEMS

EC-2H | EC-3H | EC-12H, 1-2-3-12 CHANNEL
ECG HOLTER SYSTEMS (BLUETOOTH)

FUNCTIONS OF DIFFERENT HOLTER SYTEMS			
	EC-2H	EC-3H	EC-12H
ECG Channels	1, 2	1, 2, 3, Nehb	1, 2, 3, 12, Nehb, Frank
Make new record and read record to PC	✓	✓	✓
ECG Filtering	✓	✓	✓
QRS Detection	✓	✓	✓
HR and ST Graphs	✓	✓	✓
Arrhythmia Analysis (N,S,V)	✓	✓	✓
Full ECG Visualization	✓	✓	✓
Event Viewer	✓	✓	✓
Colour-coded event marking	✓	✓	✓
Detailed ECG Visualization	✓	✓	✓
Adjustable parameters for analysis	✓	✓	✓
Report Edition	✓	✓	✓
Archiving	✓	✓	✓
Printing	✓	✓	✓
Database	✓	✓	✓
Interfaces – GDT, DICOM, HL-7	✓	✓	✓
Editing Options:	✓	✓	✓
Measuring possibility on the ECG	✓	✓	✓
QRS editing	✓	✓	✓
Mark noisy intervals	✓	✓	✓
Delete single/group events	✓	✓	✓
Motion Detection	✓	✓	✓
BBB and AV block detection	✓	✓	✓
QRS Template Classification	✓	✓	✓
P wave, PQ, QT and ST Analysis	✓	✓	✓
HRV Time Domain	✓	✓	✓
HRV Frequency Domain		✓	✓
Pacemaker Analysis		✓	✓
Atrial Fibrillation Analysis		✓	✓
Vector cardiography		✓	✓
Microvolt T-wave alternans			✓
HR Turbulence Analysis			✓
Respiration Function		✓	✓

HOLTER SYSTEMS

EC-ABP AMBULATORY BLOOD PRESSURE SYSTEM (BLUETOOTH)

- SMALL SIZE, COMPACT BUILT
- **STORES OVER 300 BP MEASUREMENTS**, UP TO 50 HOURS
- INTERVAL SETTINGS: 10, 15, 30, 45, 60, 90 MIN.
- OPTION FOR PATIENT EVENT BP MEASUREMENTS
- **OSCILLOMETRIC METHOD** WITH STEP DEFLATION
- RECHARGEABLE BATTERIES FOR ECONOMIC OPERATION
- **AUTOMATIC ANALYSIS** FOR PRECISE DIAGNOSIS
- DIGITAL SIGNAL STORAGE ON SD CARD
- PRECISE SYSTOLE AND DIASTOLE VALUES
- VALUES DISPLAYED IN TABLES,
PIE CHARTS, GRAPHS, HISTOGRAMS
- VARIOUS EDITING AND PRINTING
POSSIBILITIES
- SIMPLE, USER-FRIENDLY INTERFACE
- VALIDATIONS: **BHS (A/A), ESH,**
ANSI/AAMI SP10:2002



EC-ABP



The EC-ABP is a member of the PC based ECG Holter product family. The diagnostic device operates with rechargeable or alkaline batteries, being suitable for 50-hour BP monitoring with up to 300 BP readings, using oscillometric technology. It is a clinically validated technology in all three internationally recognized standards (BHS, ESH and ANSI). The device computes accurate and comprehensive systolic and diastolic readings, heart rate, mean arterial pressure, BP load and pulse pressure. It provides report generation, editing, and data export-import functions. The integrated software can be operated in a network environment with a common database for the entire ECG Holter product family. The software is available with a wide range of languages to choose from.



CHARTS VIEW



HISTOGRAMAS

HOLTER SYSTEM

EC-3H/ABP COMBINED HOLTER SYSTEM (BLUETOOTH)

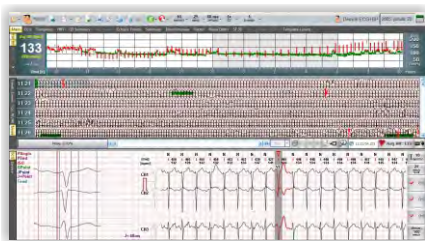
- FULL-DISCLOSURE AMBULATORY ECG AND BP RECORDS
- 3 INDEPENDENT ECG CHANNELS
- OSCILLOMETRIC BP MEASUREMENT
- PACEMAKER CHANNEL AND ANALYSIS
- PATIENT EVENT BUTTON
- RECHARGEABLE BATTERIES FOR ECONOMIC OPERATION
- USER-FRIENDLY SOFTWARE
- FAST QRS CLASSIFICATION AND RHYTHM ANALYSIS
- HRV, ST, PQ, QT, PM, ABP AND ATRIAL FIBRILLATION, FLUTTER ANALYSIS, BBB AND AV BLOCK DETECTION
- COLOR-CODED GRAPHS AND TABLES
- VARIOUS EDITING AND PRINTING FUNCTIONS



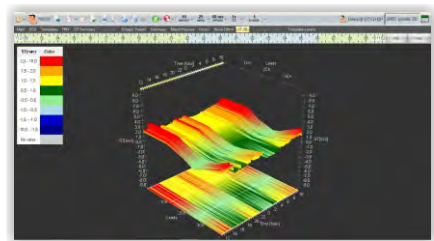
EC-3H/ABP



The EC-3H/ABP combines a 3-channel ECG Holter and an ambulatory blood pressure monitor. The QRS and PM can be detected with high precision, while template and rhythm analysis can be interactively modified by the user. This user-friendly software provides high-quality time- and frequency-based HRV, PQ, QT, ST, PM, Atrial Fibrillation, Flutter analysis, BBB and AV block detection and ABP results. The transparency and the interpretation of the results are aided by color-coded graphs and tables. The software offers a wide range of languages to choose from.



FULL VIEW + BP



ST 3D

RESTING ECG SYSTEMS

RESTING ECG SOFTWARE

- SIMPLE, USER FRIENDLY SOFTWARE WITH MULTIPLE FUNCTIONS
- PRECISE QRS CLASSIFICATION
- BUILT-IN EXPERT SYSTEM,
- SHORT AND LONG RESTING ECG RECORD
- VARIOUS PRINTABLE REPORTS,
- COMPARING MEASUREMENTS
- **DICOM, GDT, MFER, HL7**
- LOCAL AND NETWORK OPERATION
- EXPORT AND IMPORT FUNCTIONS
- **ARRHYTHMIA ANALYSIS, ARRHYTHMIA OVERVIEW**
- **WAVE ANALYSIS AND DIAGNOSTIC**

Monitoring patient with continuous recording

Besides conventional or short-term resting ECG records, you can also make records lasting several hours.

ECG Filtering to improve signal quality

Using an effective digital filtering technology, there is practically no baseline movement. The smoothing filter removes muscle and network noise components from the signals without distorting QRS complexes.

Rhythm view

All resting/continuous/stress test ECG examination will have a window below the normal 1-minute-long ECG display. This full view display shows a 5-minute-long ECG section and we can keep track of all arrhythmias in this section.



MAIN WINDOW

Diagnosis

The analyzed part of the ECG (5 sec, 4 beats) shows sinus rhythm

and suggests the following possible pathological abnormality:

- myocardial infarction in inferior location

undetermined variations:

- left axis deviation
- ST depression
- junctional ST depression

AUTOMATIC INTERPRETATION

RESTING ECG SYSTEMS

ADVANTAGES OF PC-BASED ECG SYSTEMS

PC-BASED RESTING ECGS HAVE SEVERAL ADVANTAGES COMPARED TO CONVENTIONAL ECG SYSTEMS USING THERMAL PAPER:

Digital data storage

Thousands of records can be stored while taking up minimal space

Cost-efficient operation

Digital data storage and printing records on regular paper instead of expensive thermal paper saves costs

Simple patient database management

Patient databases can be conveniently viewed on a screen, no need to file through patient cards

Filters

There are several filters when searching for a patient's record, it saves time in the administration process

Reliable data storage

The record does not fade or crinkle

Record mobility

The record can be easily copied, uploaded to a portal or sent via email

Compatibility

Records can be saved in various file formats (jpg, pdf, etc.)

Hospital information systems

Compatible with DICOM, GDT, MFER and HL7

Customizable views

A computer screen is a perfect means to display the different ECG channels, and we can also:

- switch channels on and off
- set paper speed and amplitude
- set the median's size

Enclose doctor's diagnosis

It is possible to add a diagnosis to the record itself

Automatic interpretation

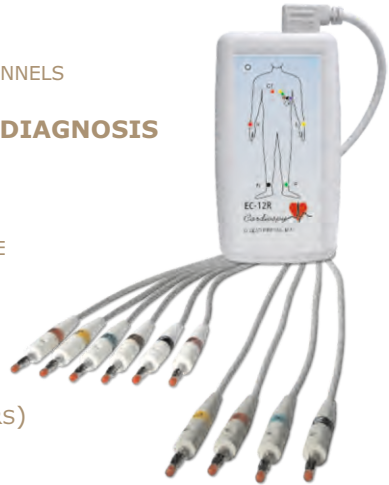
The doctor only needs to check the automatic interpretation of the software, which makes the diagnostic process shorter and easier

To conclude, we are certain that the PC-based ECG systems of Labtech Ltd. will not disappoint you. Our top priority in engineering our software has been to create a product which is easy to use and provides valuable support to doctors in their work by all possible means.

RESTING ECG SYSTEMS

EC-12R PC-BASED RESTING ECG SYSTEM (USB / BLUETOOTH TYPE)

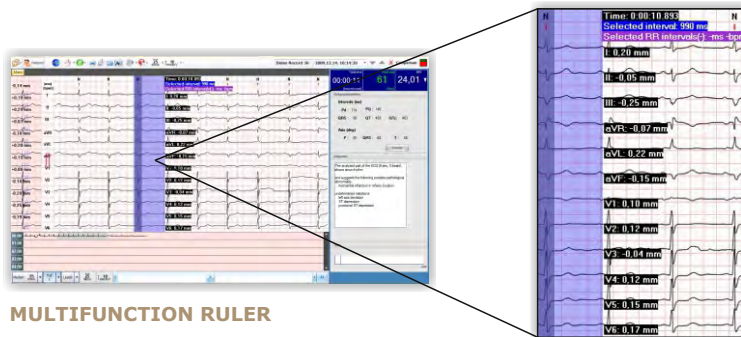
- SMALL SIZE, COMPACT BUILT
- AVAILABLE IN **BLUETOOTH DESIGN**
- SIMULTANEOUS RECORDING WITH 3/6/12 CHANNELS
- CUSTOM VIEW OPTIONS ON THE PC MONITOR
- BUILT-IN EXPERT SYSTEM TO GIVE **PRECISE DIAGNOSIS**
- **ENCLOSE DOCTOR'S DIAGNOSIS**
- ALARM TO DETECT ELECTRODE FALLING OFF
- DIGITAL DATA STORAGE
- **COST-EFFECTIVE** PRINTING AND MAINTENANCE
- SIMPLE PATIENT DATABASE MANAGEMENT
- HIGH QUALITY ECG RECORDING, PRINTING, STORING, TRANSFERRING OPTIONS
- **COMPATIBLE WITH HOSPITAL INFORMATION SYSTEMS**
- LONG-TERM RECORDING (UP TO SEVERAL HOURS)



EC-12R



The EC-12R, a small and lightweight product, can be operated in 3/6/12 channel modes connected to a PC. It is available in Bluetooth design. It enables fast and high-quality ECG recording with the aid of effective baseline, noise and muscle filters. The device gives an alarm signal in case of loosened electrodes or noise. The formulation of the diagnosis is aided not only by mean ECG values and parameter tables provided, but also by the automatic expert interpretation system. It uses regular sheets of paper instead of thermal paper, providing lasting printed records as well as making printing more cost-effective. The software includes a user-friendly archiving system.



MULTIFUNCTION RULER

RESTING ECG SYSTEMS

EC-12RT RESTING ECG MACHINE

- SMALL SIZE, COMPACT BUILT
- **EASY-TO-USE** DEVICE
- **COST-EFFECTIVE** PRINTING AND MAINTENANCE
- DISPLAYS 3/6/12 CHANNELS ON COLOURED TFT MONITOR
- **CHANNEL PRINTING SIMULTANEOUSLY**
- ALPHANUMERIC KEYBOARD, HOTKEYS FOR IMPORTANT FUNCTIONS
- HIGH RESOLUTION THERMAL PRINTER ON 110MM THERMOPAPER
- **INTERNAL MEMORY UP TO 500 RECORDS**
- ARRHYTHMIA MODE SAVES PAPER
- **PACEMAKER** DETECTION
- DEFIBRILLATOR PROTECTED
- **PC-BASED ECG MODE AVAILABLE**
- HIGH QUALITY ECG RECORDING, PRINTING, STORING, TRANSFERRING OPTIONS



The EC-12RT is a high-profile portable ECG machine with thermal printer and coloured TFT monitor. The small, lightweight and compact device is very user-friendly, its TFT display, alphanumeric keyboard and various extra functions make it easy to use. Its sophisticated filters and amplifiers ensure a top-quality ECG recording. The EC-12RT device is the perfect combination of a conventional ECG machine and PC-based solutions as it can be connected to a computer via a COM-port/USB-port, this way all patient data can be uploaded into the Cardiospy software and database.



EC-12RT



EC-3RT

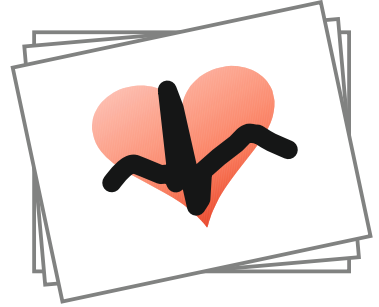
- SMALL SIZE, COMPACT BUILT
- **EASY-TO-USE** DEVICE
- **COST-EFFECTIVE** PRINTING AND MAINTENANCE
- HOTKEYS FOR IMPORTANT FUNCTIONS
- HIGH RESOLUTION THERMAL PRINTER ON 57 MM THERMOPAPER
- SIMULTANEOUS REGISTRATION OF **3/6/12 LEADS** OF ELECTROCARDIOGRAM
- CHANNEL PRINTING AFTER EACHOTHER
- ARRHYTHMIA MODE SAVES PAPER
- **POSSIBILITY OF TAKING ECG FROM CHILDREN AND INFANTS**
- A GRAPHICAL LCD DISPLAY ALLOWS TO VIEW THE ECG

STRESS TEST (ETT) ECG

INTRODUCTION

THE SYSTEM:

- **CARDIOSPY®** INTEGRATED SOFTWARE
- **EC-12S** OR **EC-12R/S** ECG DEVICE
- ERGOMETER: LODE, ERGOLINE AND 24 OTHERS
- TREADMILL: LODE, TRACKMASTER AND 26 OTHERS
- PC (PROVIDED BY LOCALLY)
- TROLLEY (OPTIONAL)



The EC-12S Stress Test System has all the characteristics of our EC-12R and EC-12R/S devices, but it also offers built-in auscultation blood pressure measurement. Connected to the PC, the device display sampling and ECG curves with high precision, automatically loads controls, and monitors HR, ST, ABP, MET, etc. parameters. The user-friendly analyzing software enables efficient and reliable measurement. It is capable of exporting, importing and archiving records.

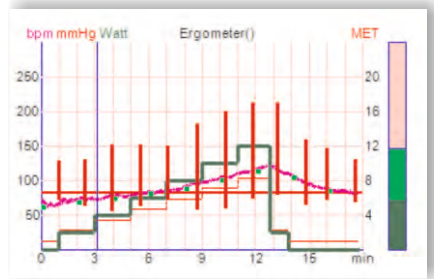


THE COMPLETE SYSTEM

STRESS TEST (ETT) ECG

STRESS TEST SOFTWARE

- SIMPLE, **USER FRIENDLY SOFTWARE** WITH MULTIPLE FUNCTIONS
- PRECISE QRS CLASSIFICATION
- EXCELLENT BASELINE MOVING REJECTION
- BUILT-IN EXPERT SYSTEM
- SHORT AND LONG RESTING ECG RECORD
- **BP MEASUREMENT BASED ON AUSCULTATION METHOD**
- COLOUR-CODED ST LEVEL, SLOPE AND ST LOOP GRAPHS
- SAECG
- MET COMPUTATION
- **HR, BP, LOAD, MET GRAPHS**
- VARIOUS PRINTABLE REPORTS
- CUSTOMIZABLE ALARM AND STOP CRITERIA
- ERGOMETER AND TREADMILL DATABASE
- COMPARING MEASUREMENTS
- **DICOM, GDT, MFER, HL7**
- LOCAL AND NETWORK OPERATION
- EXPORT AND IMPORT FUNCTIONS
- **VARIOUS LOAD PROTOCOLS: STAGE, RAMP, HR CONTROLLED, STANDARD, CUSTOM**



HR | BP | LOAD - DIAGRAM

Monitoring patient with continuous recording

Besides conventional or short-term resting ECG records, you can also make records lasting several hours.

Ergometer and Treadmill database

Several ergometer and treadmill types can be chosen from the database with wide range of protocols. All protocols have been tested.

ECG Filtering to improve signal quality

Using an effective digital filtering technology, there is practically no baseline movement. The smoothing filter removes muscle and network noise components from the signals without distorting QRS complexes.

Reducing the number of faulty readings by synchronizing BP measurements

Defining blood pressure by QRS gate method effectively reduces the number of faulty measurements. Due to the integration, there is no QRS synchronic "slip", so even in case of high heart frequency no such problem will occur.

Emergency stop when the patient feels discomfort or dizziness during continuous monitoring

In case a patient feels discomfort or dizziness during a stress test, monitoring can be extended up to 60 minutes with ST trends and blood pressure monitoring.

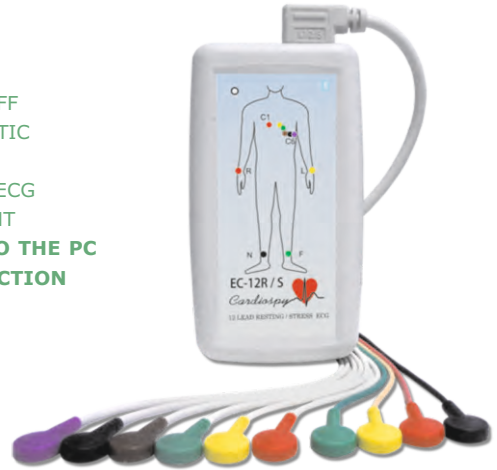
Rhythm view

All resting/continuous/stress test ECG examination will have a window below the normal 1-minute-long ECG display. This full view display shows a 5-minute-long ECG section and we can keep track of all arrhythmias in this section.

STRESS TEST (ETT) ECG

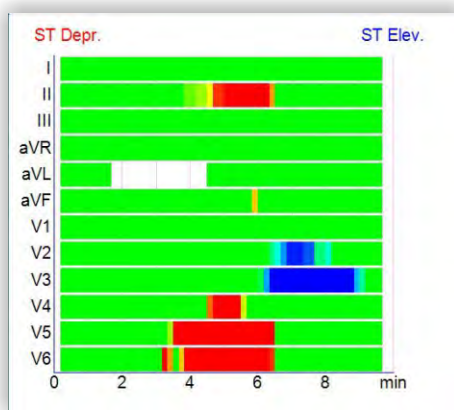
EC-12RS PC-BASED RESTING AND STRESS TEST ECG (BLUETOOTH)

- BUILT-IN EXPERT SYSTEM TO GIVE PRECISE DIAGNOSIS
- SMALL SIZE, COMPACT BUILD
- ALARM TO DETECT ELECTRODE FALLING OFF
- TREADMILL, ERGOMETER BASED DIAGNOSTIC EXERCISE MEASUREMENT SYSTEM
- INTEGRATED RESTING AND STRESS TEST ECG SOFTWARE WITH DATABASE MANAGEMENT
- **NO NEED TO CONNECT THE PATIENT TO THE PC WITH CABLES: BLUETOOTH PC CONNECTION**



EC-12RS

The EC-12R/S ECG has all the characteristics of the EC-12R device but it can also be used for making stress test examinations without monitoring blood pressure. In this case BP measurement is made with a conventional BP meter and the results are manually entered into the software. Connected to the PC, the device displays sampling and ECG curves with high precision, automatically loads controls and monitors HR, ST, ABP, MET, etc. parameters. The user-friendly analyzing software offers efficient and reliable measurements.



COLOUR CODED ST DIAGRAM

Time(min.s)	4:01	Phase time (min.s)	3:01
Auto BP (mmHg)	163/75	cycles	Heart rate (bpm)
SyCO ₂	-- %	MET (5.0 / 6.3)	92%
MET max	6,2 (99%)	Load (Watt)	100
DBP	29,30	DBP	23568
V ischaemic rate (5/500)	5,7%	SV ischaemic rate (4/999)	0,4%
Target HR: 150 bpm	83%		

INFO BOX

STRESS TEST (ETT) ECG

EC-12S PC-BASED RESTING AND STRESS TEST ECG WITH BUILT-IN BP MONITOR (BLUETOOTH)

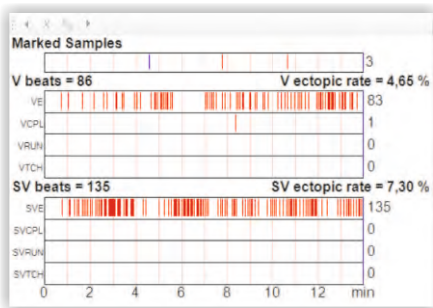
- BUILT-IN EXPERT SYSTEM TO GIVE PRECISE DIAGNOSIS
- SMALL SIZE, COMPACT BUILD
- ALARM TO DETECT ELECTRODE FALLING OFF
- TREADMILL, ERGOMETER BASED DIAGNOSTIC EXERCISE MEASUREMENT SYSTEM
- INTEGRATED RESTING AND STRESS TEST ECG SOFTWARE WITH DATABASE MANAGEMENT
- **NO NEED TO CONNECT THE PATIENT TO THE PC WITH CABLES: BLUETOOTH PC CONNECTION**
- **UNIQUE SOLUTION ON THE MARKET: ONLY STRESS TEST DEVICE WITH BUILT-IN BP MONITOR**



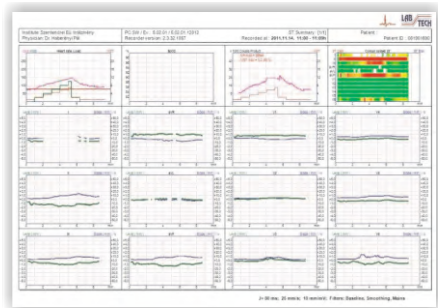
EC-12S

STRESS TEST (ETT) ECG

The EC-12S Stress Test System has all the characteristics of our EC-12R and EC-12R/S devices, but it also offers built-in auscultation blood pressure measurement. Connected to the PC, the device display sampling and ECG curves with high precision, automatically loads controls, and monitors HR, ST, ABP, MET, etc. parameters. The user-friendly analyzing software enables efficient and reliable measurement. It is capable of exporting, importing and archiving records.



ECTOPIC EVENTS



ST SUMMARY REPORT

STRESS TEST (ETT) ECG

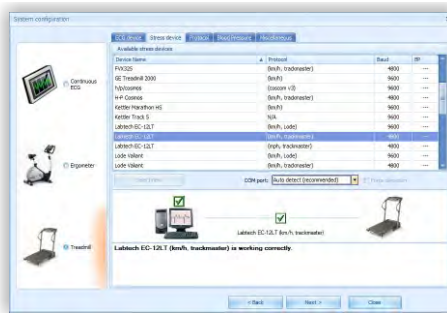
EC-12LT TREADMILL

- HIGHLY RELIABLE AND DURABLE
- ALMOST MAINTENANCE FREE
- QUIET OPERATION
- SMOOTH ACCELERATION
- LOW STEP-UP HEIGHT
- SIDE HANDRAILS
- SAFETY STOP-BELT
- **SPEED: MAX 25 KM/H**
- **MAX. PATIENT WEIGHT: 225 KG**
- **GRADE: MAX 25 %**
- USB CABLE (USB A-B)
- SAFTY CLASS: CLASS I



EC-12LT

The EC-12LT Treadmill is the perfect loading device for Stress Test Systems as it is a reliable and durable machine. It can be controlled by many PC-based ECGs once it is connected to a PC. It can be used for stress test examinations and rehabilitation purposes as well. Low step-up height, safety stop-belt, side handrails, quiet operation and smooth acceleration all add to the high usability of this device.



SELECT STRESS DEVICE



SELECT STRESS PROTOCOL

STRESS TEST (ETT) ECG

ECG DEVICE TROLLEY

SPECIFICATIONS:

- STAINLESS, COLORED STEEL FRAME
- WITH SERIES OF OUTLETS
- WITH CABLE CHANNEL
- SHELF: WHITE, 19 MM OF LAMINATED SHEET
- **WAGGLE: WITH INDEPENDENT WHEELS, OF WHICH 2 PIECES BRAKES**
- THE KEYBOARD-HOLDING SHELF AND THE MONITOR-HOLDER CAN BE ADJUSTED BY MANUAL CLAMPING SCREW
- **DESIGN FOR 1 OR 2 PC MONITORS**



EC-DT

We give lot of importance to the quality of our trolley for stress tests. Our trolley is thoroughly checked for any kind of defects at every step of manufacturing before being dispatched to our customers. We ensure that our trolley is high in performance and efficiency. Our trolley is smooth and easy to operate and practically maintenance-free.



DOUBLE SCREEN MODE

CARDIAC REHABILITATION

EXAMINE UP TO 10 PATIENTS AT THE SAME TIME WITH DIFFERENT STRESS DEVICES

- BUILT-IN EXPERT SYSTEM TO GIVE PRECISE DIAGNOSIS
- EASY TO CONNECT TO EXISTING OR NEW NETWORK
- ALARM TO DETECT ARTEFACTS
- TREADMILL, ERGOMETER BASED DIAGNOSTIC EXERCISE MEASUREMENT SYSTEM
- **28 DIFFERENT PRESET PROTOCOLS**
- CREATE YOUR OWN TEST PROTOCOL
- HR CONTROLLED PROTOCOL

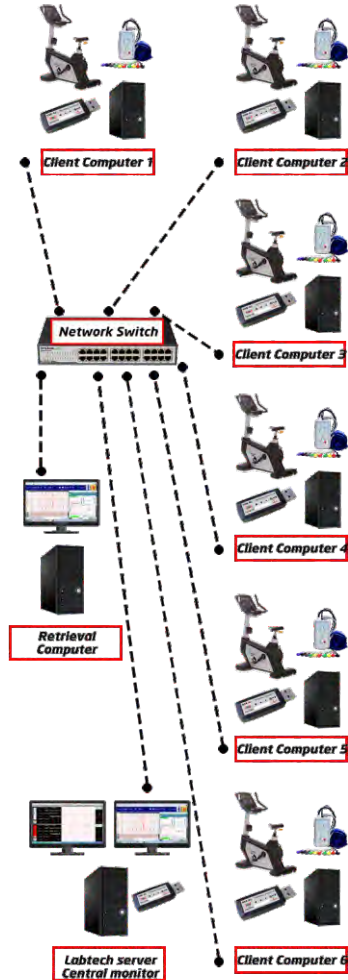
MANAGEMENT

- **NO NEED TO CONNECT THE PATIENT TO THE PC WITH CABLES: BLUETOOTH PC CONNECTION**
- **UNIQUE SOLUTION ON THE MARKET: ONLY STRESS TEST DEVICE WITH BUILT-IN BP MONITOR**



Cardiac rehabilitation can help patients:

- Recover after a heart attack or heart surgery
- Prevent future hospital stays, heart problems and death related to heart problems
- Address risk factors that can lead to coronary heart disease and other heart problems.
- Adopt healthy lifestyle changes.
- Improve health and quality of life



LIST OF THE CONNECTED CLIENTS



SCREEN OF THE SELECTED CLIENT

ERGOSPIROMETRY

EXAMINE THE INTERACTIVE REACTIONS OF HEART LUNG, VASCULAR AND METABOLIC SYSTEM

- BUILT-IN EXPERT SYSTEM TO GIVE PRECISE DIAGNOSIS
- CHOOSE FROM SEVERAL INTEGRATED SPIROMETRY SOFTWARES
- BREATH-BY-BREATH TECHNOLOGY
- TREADMILL, ERGOMETER BASED DIAGNOSTIC EXERCISE MEASUREMENT SYSTEM
- **12 CHANNEL ECG AND VO2 TEST**
- EXTREMELY SMALL AND LIGHT PATIENT CIRCUIT
- AUTOMATIC CALIBRATION AND SELF TEST

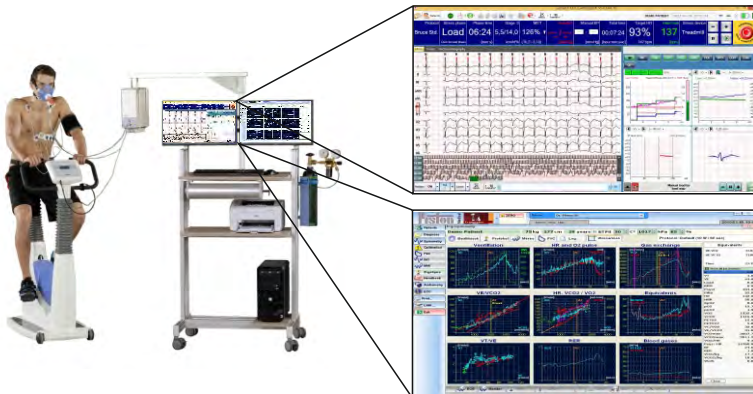


MANAGEMENT

- **NO NEED TO CONNECT THE PATIENT TO THE PC WITH CABLES: BLUETOOTH PC CONNECTION**
- **UNIQUE SOLUTION ON THE MARKET: ONLY STRESS TEST DEVICE WITH BUILT-IN BP MONITOR**
- **SUPERIOR EASE OF DATA COLLECTION AND DUAL-MONITORING-SYSTEM FOR OPTIMAL VIEWING**



Cardiopulmonary exercise testing provides a global assessment of the integrative exercise responses involving the pulmonary and cardiovascular system. Ergospirometry is increasingly being used in a wide spectrum of clinical applications for the evaluation of undiagnosed exercise intolerance and exercise-related symptoms.



STRESS TEST (ETT) ECG

NETECG SYSTEM

EC-12RM AND CARDIOSPY® MOBILE FOR ANDROID™

- REAL-TIME ECG DISPLAY
- 12-CHANNEL RESTING ECG
- SUPPORTS ANDROID DEVICES
- PORTRAIT AND LANDSCAPE DISPLAY MODE
- BLUETOOTH CONNECTION WITH THE ECG RECORDER
- SENDS REPORTS IN JPG OR MFER FORMAT VIA EMAIL
- SAVES RECORDS TO SD CARD THEN SYNCHRONISE TO CARDIOSPY SOFTWARE VIA USB CABLE
- SEND RECORDS VIA CLOUD SERVICE



EC-12RM

The EC-12RM is a compact ECG device, which can forward real-time, 12 channel ECG signals to any Android device (e.g.: tablet or smartphone) via Bluetooth connection. This way the device can make excellent quality ECG records in a mobile and fast method. We can measure certain sections of the ECG and customize the on-screen display of the ECG to suit our own needs. There are several methods to forward each record: jpeg and MFER formats are both accepted in the Cardiospy cloud application.



Cardiospy® Mobile

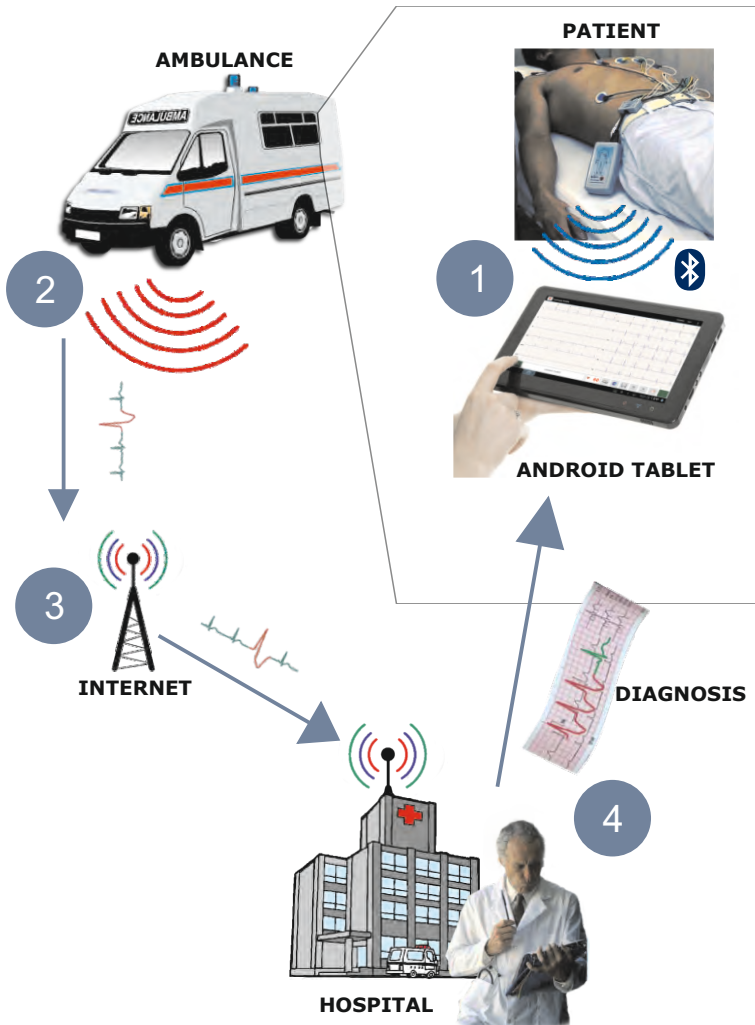
Android is a trademark of Google Inc.

NETECG SYSTEM

EC-12RM AND CARDIOSPY® MOBILE FOR ANDROID™

THE PRODUCT IS IDEAL TO USE IN AN EMERGENCY CAR, BECAUSE:

- THE TABLET IS EASY TO USE BECAUSE IT IS SMALL AND MOBILE
- WIRELESS TECHNOLOGY ELIMINATES THE INCONVENIENCE OF USING CABLES
- RECORDS ARE EASY TO UPLOAD TO AN EMERGENCY CENTRE WHERE THEY ARE IMMEDIATELY EVALUATED
- IT IMMEDIATELY PROVIDES FEEDBACK ON THE PATIENT'S CONDITION
- IT PERFORMS A PRELIMINARY ANALYSIS OF THE PATIENT ON HIS WAY TO THE HOSPITAL
- THE PATIENT RECEIVES THE APPROPRIATE TREATMENT SOONER AS PATIENT REGISTRATION TAKES LESS TIME



ECG SIMULATOR

SIM-02 ECG SIMULATOR

- GENERATES ECG SIGNALS INSTEAD OF A REAL PATIENT
- **USEFUL WHEN SERVICING OR EXHIBITING ECG DEVICES**
- SIMULATES HOLTER, RESTING AND STRESS TEST ECG MEASUREMENTS
- CAN BE USED WITH BANANA PLUGS AND PATENT CLIPS
- **GENERATES NORMAL AND ARRHYTHMIC QRS FORMS**
- GENERATES SEVERAL HEART RATE FREQUENCIES AND ECG SIGNS
- LCD DISPLAY
- EASY TO USE DEVICE
- LOW POWER CONSUMPTION
- WORKS RECHARGEABLE BATTERIES
- **WORKS UP TO 80 HOURS**



SIM-02

A calibrated ECG patient simulator is extremely useful during the calibration processes of ECG devices. Labtech Ltd.'s device is able to simulate a lifelike, complete 24-hour long Holter-monitoring or a complex stress test examination which includes non-invasive blood pressure measurement as well. The simulator has a universal ECG connection interface and a very informative LCD display controlled by a menu-based system. These functions make the use of the device really easy and convenient.



SIM-02

QUALITY AND EFFICIENCY

SINCE 1990



Labtech Partner:

