



# Cardio PC/E

Rest and exercise ECG diagnostic system with bicycle and/or treadmill ergometer

## Flexible features for user's needs

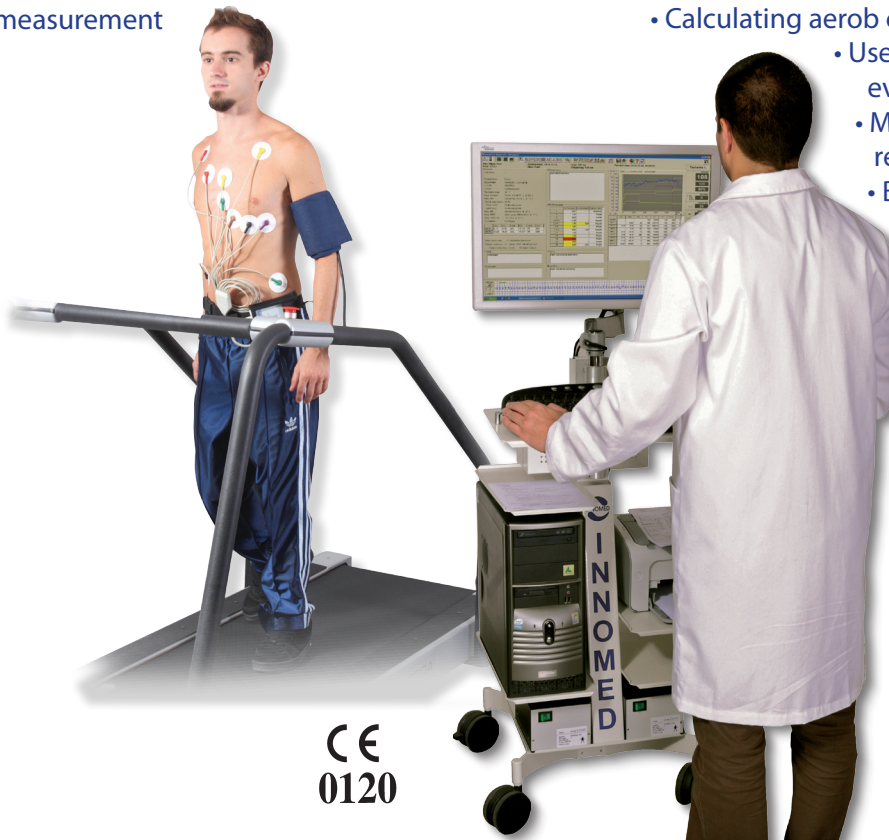
- Customizable and standard exercise protocols
- Flexible report content
- Automatic control of bicycle and treadmill ergometers
- Automatic or manual blood pressure measurement
- Graphic display of the exercise process and the measured parameters
- Full-disclosure display and record storage

## Reliable automatic measurement analysis functions

- Heart frequency dependent ST measurement and analysis
- Arrhythmia analysis
- Real-time axis position, amplitude and time-parameter measurement

## Cardio PC/E system services

- 3/6/12-channel real-time monitoring in any lead order
- Digital baseline filter
- Real time measured parameters and analysis on the averaged curves: axis position, amplitude (P,Q,R,S,T,ST,J), time parameters (P width, PQ distance, QRS width, QT distance), heart frequency calculation
- Alarms: heart-frequency, ST level change, blood- pressure level
- Exercise graph: load level, HR, blood-pressure, RPP, revolutions, ES, SVES, VES, QT interval
- Display of loading in MET
- Target heart frequency definition based on age
- Borg-scale
- Duke score nomogram
- Weber functional arrangement
- Calculating aerob capacity decrease
  - Use of Bayes-law for examination evaluation
  - Making hyperventilation ECG record
  - Built-in customizable storage and printed reports
    - Documentation of angina, medication intake and pre-examination medication



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## System components:

- CardioPC rest and exercise ECG diagnostic program
- High end, scientific level CardioPC USBH-12 as 12-channel measuring head or HeartScreen 112 Clinic ECG
- Bicycle and/or treadmill ergometer
- Patient cable with electrodes
- High-performance PC-based diagnostic system
- Large color monitor
- Laser printer
- Innobase for Windows cardiological database management system



## Options:

- Automatic blood-pressure measurement for bicycle ergometer and/or treadmill
- Suction electrode ECG cable system
- Device trolley



## TECHNICAL DATA /with USBH-12 head/

### Measuring head/PC interface

USB optionally Bluetooth

### Amplifier

12-channel amplifier

### Amplifier frequency response

DC ... 150 Hz

### Input noise

<20 $\mu$ Vpp

### CMRR

min 120dB (with filter)

### DC tolerance

$\pm$  320 mV DC

### Pace-maker tolerance

max. 700 mV/2ms

### Pace detection

min. 2 mV/0.5 ms

max. 700 mV/2 ms

### Input impedance

tip. 50 Mohm

### Input signal range

$\pm$  10 mV

### A/D converter resolution

22 bits, 50 kHz

### Filters

-50/60 Hz noise filter

-Muscle filter

-digital baseline filter

### Patient cable

10-lead cable with patents

### Safety class

I, CF according to EN60601-1

### ECG specification

according to EN60601-2-25

### Operating temperature

+10 °C ... +40 °C

### Storage temperature

-20 °C ... +60 °C

### Operating, storage humidity

25% ... 95% without condensation

### Defibrillator protection

Only with manufacturer supplied defibrillator protected cable!



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