



EDANUSA, CARDIOLINE, QRS DIAGNOSTICS, MDPRO,  
 MEDITECH, MIR SPIROMETRY PRODUCTS,  
 MINDRAY DATASCOPE MONITORING

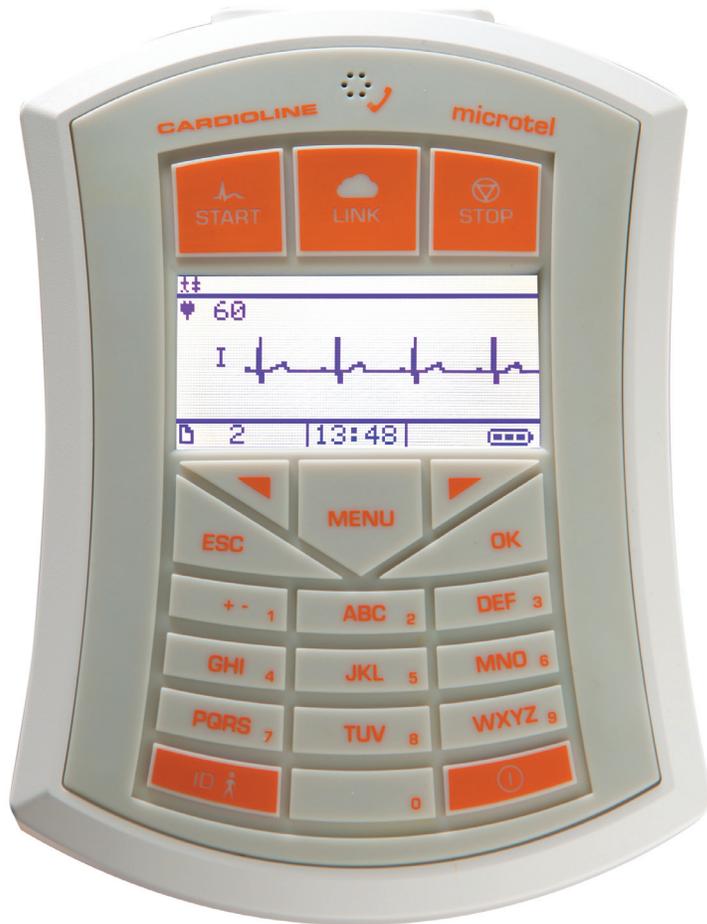


Compact size and professional performance, in a reliable, updatable palm-held electrocardiograph with multiple transmission capabilities.

**microtel** is the solution for the remote medicine ECG as well for the hospital professional on the move.

# MICROTEL

The ECG for communication



## PRINCIPAL CHARACTERISTICS

Automatic recording mode with the following transmission options:  
 Telephone line, USB (an option available as standard in the microtelbt),  
 Bluetooth(microtelbt). Powered by rechargeable or standard batteries (4 x AA).  
 Time and date function.



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## MICROTEL TECHNICAL SPECIFICATIONS

Leads .....	12 simultaneously acquired standard leads
Sampling .....	500 samples per second at 11 bit, sensitivity (LSB) 5.0microV/bit
Input dynamic .....	± 300 mV @ 0 Hz, ± 5 mV in pass band
Frequency response .....	0.05Hz – 150Hz (-3dB)
Input impedance .....	> 100 Mohm
Common mode rejection .....	= 100dB
Time constant .....	3.3 sec
Saturation detection .....	Independent on each electrode
Acoustic transmission .....	Frequency modulation; carrier 1900 Hz; depth 100 Hz/mV
Acoustic transmission protocols .....	12X2.5 / L1x10: sequence of 12 leads all transmitted for 2.5 seconds apart from L11, transmitted for 10 sec 12X2.5 + L1x10: sequence of 12 leads all transmitted for 2.5 seconds with final repetition of L11, transmitted for 10 sec 12X10: sequence of 12 leads all transmitted for 10 sec The same protocols are available for 7 leads
Digital transmission .....	Connection by USB cable, Class I Bluetooth (microtelbt only)
ECG memory .....	40 tests in SCP format complete with patient data and test data
Operating mode .....	Acoustic: acquisition and saving of 12 leads for 10 seconds and possible transmission in acoustic mode Digital: acquisition and storage of an ECG test in standard SCP format complete with patient data and possible transmission in digital mode via USB cable or Bluetooth (microtelbt only)
Keypad .....	20 key silicon rubber key pad
Display .....	Backlit monochrome graphic LCD 128x64 pixel or 6 lines of 20 characters
Patient cable .....	10 wire patient cable with banana terminals and defibrillation protections
Defibrillator protection .....	Resistance to discharge in patient cable
Power supply and consumption .....	4 ultra or rechargeable NiMH AA batteries (at least 2500 mAh), 340 mA
Dimensions & Weight .....	155x115x30 mm, 375g (with batteries) and 275g (without batteries)
Housing protection category .....	IP 20
PC Interface .....	USB port, USB Bluetooth key for Windows XP SP2 (microtelbt only)
Safety and Conformity to standards .....	References Class I, Type CF, EN 60601-1, EN 60601-2-25, EN 60601-2-51 Classification according to EEC regulation 93/42: class IIa



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