PC-Based 12 Lead ECG
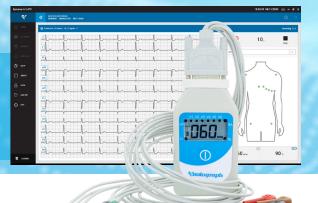
Fast, accurate and reliable 12-Lead Resting ECG instantly on your own PC, laptop or tablet.

Technical Specifications

Product	BT12 ECG Model 4130 (Requires Spirotrac PC software*)
Dimensions W x H x D	6.1cm x 10.6cm x 2.3cm
Weight, incl. cable	210 g incl. batteries (154 g without batteries)
Power Supply	2 x AA batteries (1.5 V) or rechargeable batteries (1.2 V)
Data Transmission	Wireless, standard Bluetooth 2.1
Electrodes	Standard clip ECG electrodes
Signal Monitoring	Missing signal, Connection termination, Electrode loss
Sample Rate	500Hz
Digital Resolution	2.6 µV
Interpretation	Glasgow Algorithm University of Glasgow
Parameters (Spirotrac Software*)	HR[/min] Heart Rate RR[ms] R-R interval P[ms] Duration of the P wave PQ[ms] Duration of the PQ interval ST[ms] Duration of the ST segment PR[ms] Duration of the PR interval QRS[ms] Duration of the QRS complex P Axis[degrees] Axis of the P wave QRS Axis[degrees] Axis of the QRS complex T Axis[degrees] Axis of the T wave QT[ms] Q-T interval QTc[ms] Q-T interval, corrected by HR with options Fridericia, Framingham, Bazett and Hodges
Reports Options (Spirotrac Software*)	• 3 x 4 • 6 x 2 • 12 x 1 • Medians • Average
Amplitude (Spirotrac Software*)	1, 5, 10 or 20 mm/mV
Chart Speed (Spirotrac Software*)	12.5, 25 or 50 mm/sec
PC Requirements	Bluetooth capability or USB port for Bluetooth Adaptor. Refer to the Spirotrac Instructions For Use for further PC requirements of Software
Recording Duration	10 seconds to 5 minutes
Software ECG Filters	Power Line noise Filter, Muscle Filter
Bandwidth	0.05 Hz – 150 Hz digital

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Technical Specifications (continued)

Lead Configuration	10 lead Patient cable/ 12 lead ECG
Screen Display	LCD
Range	Approximately 10 metres
Bluetooth Technology	Serial transmission protocol with SDP
Runtime	9 to 13 hours of operation depending on battery type
Defibrillation Protection	Yes (With supplied Cable)
Pacemaker Detection	Yes
Resolution	24 bit A/D converter (15 bit transmitted)
Degree of protection against penetration of water	IPX3
Operating Temperature Range	Temp = 0 to 50 °C, Humidity = 25 to 95% RH
Air Pressure Range	700hPa - 1060hPa
Current consumption at 3 V • **Operation** • **Stand-by**	 • 148 mA (BT12) • 37 mA (BT12)
Classification in acc. with 60601-1 **Type of protection against electric shock:** **Degree of protection against electric shock:**	 Device with internal power supply Type BF
Product Life	Annual service recommended for product life of 5 years
Sound pressure level of signal regulated over 5 levels	37 dB – 55 dB
Performance Standards	IEC 60601-2-25, IEC 60601-2-27
Device Classification	Class II (USA) / IIa (EU) medical device
Warranty	Free 5-Year warranty included with BT12 product registration

* BT12 ECG requires Spirotrac PC software which is sold separately

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