



SMART ECG

Series Electrocardiograph



	SE-1 Single Channel ECG	SE-3 Three Channel ECG
Input Circuit	Floating input circuit, protection from defibrillation and pace maker	
Lead	Standard 12 leads	
Acquisition Mode	Single	12 leads simultaneously
A/D Converter	12 bits	
Measurement Range	$\pm 5\text{mVpp}$	
Time Constant	$> 3.2\text{s}$	
Frequency Response	$0.05\text{Hz} \sim 150\text{Hz}$	
Calibration Voltage	$1\text{mV} \pm 3\%$	
Sensitivity	2.5, 5, 10, 20 (mm/mV)	
Input Impedance	$> 10\text{M}\Omega$	$> 50\text{M}\Omega$
Input Circuit Current	$\leq 50\text{nA}$	
Noise Level	$< 15 \mu\text{Vp-p}$	
Anti Baseline Drift	Automatic	
Patient Leakage Current	$< 10 \mu\text{A}$ (220V-240V)	
Patient Auxiliary Current	$< 0.1 \mu\text{A}$ (DC)	
Filter	EMG Filter 35Hz (-3dB) AC/DFT Filter 50 Hz/60Hz (-20dB)	EMG Filter 25Hz/35Hz/OFF DFT Filter 0.05/0.15/0.25/0.5Hz Lowpass Fliter 150Hz/100Hz/75Hz AC Filter 50 Hz/60Hz
CMRR	$> 90\text{dB}$	$> 100\text{dB}$
Recording Mode	Auto/Manual	Auto/Manual/Rhythm
Rhythm Lead	Any lead selectable	
Safety Standard	IEC I/CF	
Power Supply	AC: 100V-115V/220V-240V, 50/60Hz Built-in rechargeable Li-ion battery: voltage=14.4V More than 3 hrs continuously operation under battery supply	
Recorder	Thermal printer	
Record Paper	50mm x 30m	80mmx20m
Paper Speed	25mm/s, 50mm/s ($\pm 3\%$)	5mm/s, 10mm/s, 12.5mm/s, 25mm/s 50mm/s ($\pm 3\%$)
Dimension	288mm x 210mm x 70mm	
Weight	2.3kg (with battery)	2.5kg (with battery)
Display	192 x 64 pixels LCD	320 x 240 pixels LCD (Wide Screen) 192 x 64 pixels LCD (Narrow Screen)
External Input/Output	Input: $\geq 100 \text{ k}\Omega$; Sensitivity 10mm/V $\pm 5\%$ Output: $\leq 100 \Omega$; Sensitivity 1V/mV $\pm 5\%$	
Communication Interface	RS232	Ethernet, RS232, USB

specification subject to change without prior notice



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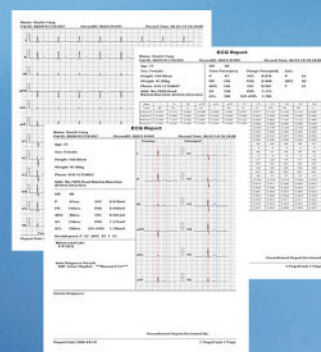
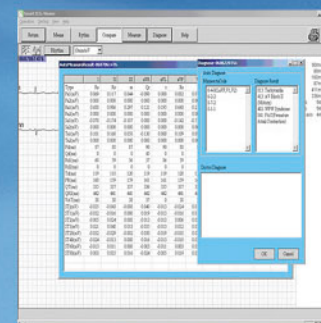
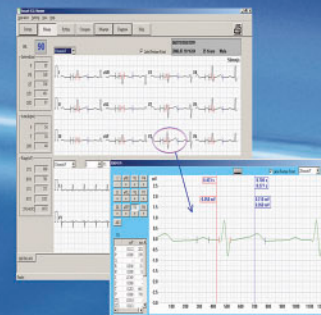
SE-3 Three Channel ECG



SE-3 (Wide Screen)

- Complete digital design
- Folding up LCD display waveforms, parameters configurable
- 12 Leads simultaneous acquisition
- High resolution thermal printing
- Built-in rechargeable Li-ion battery, AC/DC supply
- Automatic ECG parameter measurement and analysis

Smart ECG-Viewer



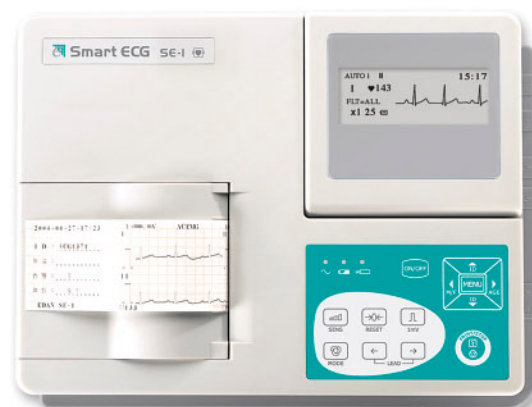
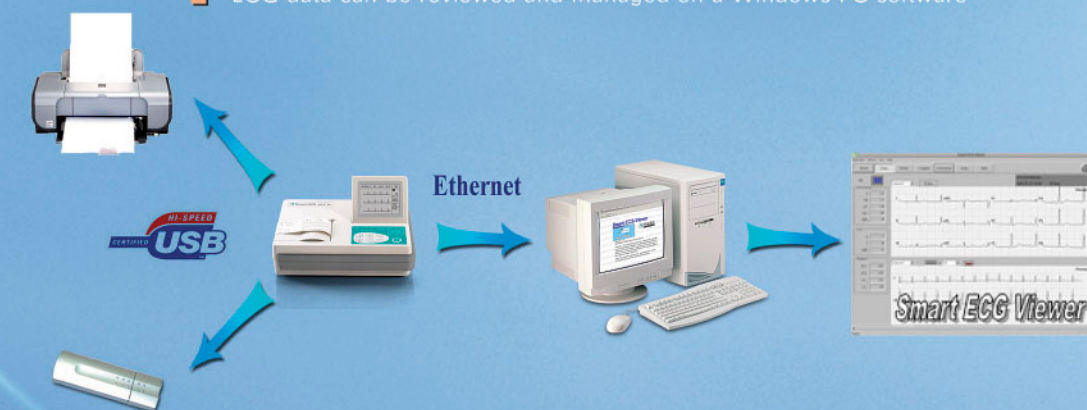
Smart ECG-Viewer software
Can import ECG data to PC
to implement visual display,
measure, analyze then print out
the ECG data information with
standard printer.

- Complete digital filter, avoid baseline drift, AC, EMG interfere
- Baseline automatic adjustable, optimize printing position
- Auto/manual operation selectable
- Lead-off detection and display
- Selectable printing format: Auto, manual, rhythm



SE-3 (Narrow Screen)

- Support USB ink-jet printer for 12 leads printing
- 100 patients data storage and transfer by USB flash disk, Ethernet or series port
- ECG data can be reviewed and managed on a Windows PC software



SE-1 Single Channel ECG

- Complete digital design
- Folding up LCD display waveforms, parameters configurable
- High resolution thermal printing
- Built-in rechargeable Li-ion battery, AC/DC supply
- Well designed touch panel

- Input/Output and RS-232 port
- Complete digital filter, avoid baseline drift, AC, EMG interfere
- Baseline automatically adjustable, optimize printing position
- Auto/manual operation selectable
- Lead-off detection and display