



# ECG-1F/ECG-3F Single/Three-channel ECG

## Technical Specifications

	ECG-1F Single Channel ECG	ECG-3F Three-Channel ECG
Input Circuit	Defibrillator protection built-in	
Lead	Standard 12 leads	
Acquisition Mode	Single lead	12 leads simultaneously
A/D Converter	12 bits	12 bits / 24 bits ( optional DE12 ECG board )
Measurement Range	± 5mVpp	
Time Constant	> 3.2s	
Frequency Response	0.05Hz ~ 150Hz (-3dB)	
Calibration Voltage	1mV ± 3%	
Sensitivity	2.5, 5, 10, 20 (mm/mV)	
Input Impedance	> 50MΩ	> 50MΩ
Input Circuit Current	<0.05μ A	
Noise Level	<15 μVp-p	
Baseline Adjustment	Automatic	
Patient Leakage Current	< 10 μ A (220V~240V)	
Patient Auxiliary Current	<0.1 μ A (DC)	
Filter	EMG Filter 35Hz (-3dB) AC Filter 50 Hz/60Hz (-20dB)	EMG Filter 25Hz/35Hz/45Hz /OFF DFT Filter 0.05/0.15/0.25/0.5Hz 0.32/0.67 Hz ( optional DE12 ECG board ) Lowpass Filter 150Hz/100Hz/75Hz AC Filter 50 Hz/60Hz
CMRR	>110dB	>110dB / >115dB ( optional DE12 ECG board )
Recording Mode	Auto: 1CH, 1CH+1R Manual: 1CH	Auto: 3CH, 3/2 CH, 3CH+1R, 1CH, 1CH+1R Manual: 3CH, 3/2 CH, 1CH Rhythm: Single rhythm lead
Rhythm Lead	Any lead selectable	
Power Supply	AC: 100V~115V/220V~240V, 50/60Hz Built-in rechargeable Li-ion battery: voltage=14.8V More than 3 hrs continuous recording under battery supply	
Recorder	Thermal printer	
Record Paper	50mm x 30m	80mm x 20m
Paper Speed	25mm/s, 50mm/s ( ± 3%)	5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s 50mm/s ( ± 3%)
Dimension	288mm x 210mm x 70mm	
Weight	2.3kg	2.5kg
Display	192 x 64 pixels LCD	320 x 240 pixels LCD (Wide Screen) 192 x 64 pixels LCD (Narrow Screen)
External Input/Output	Input: > 100 kΩ ; Sensitivity 10mm/V ± 5% Output: < 100 Ω ; Sensitivity 1V/mV ± 5%	
Communication Interface	N/A	Ethernet, RS232

# electro- CARDIOGRAPH

## ECG-1F/ECG-3F Single/Three-channel ECG



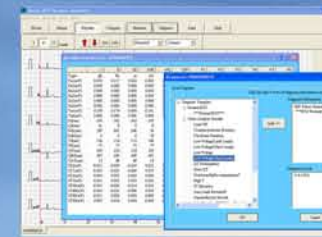
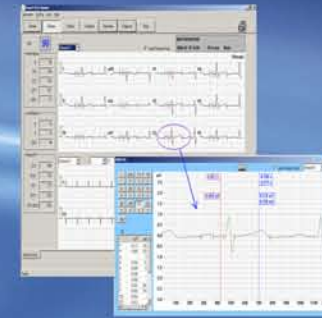
# ECG-3F Three - Channel ECG



ECG-3F (Wide Screen)

- Foldable LCD screen, vivid waveform display
- 12 leads simultaneous acquisition
- Built-in high-resolution thermal printer
- Built-in rechargeable Li-ion battery, AC/DC power supply
- Automatic ECG measurement and interpretation

## ECG-Viewer



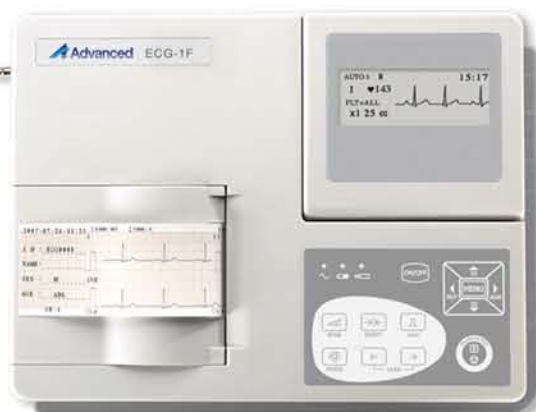
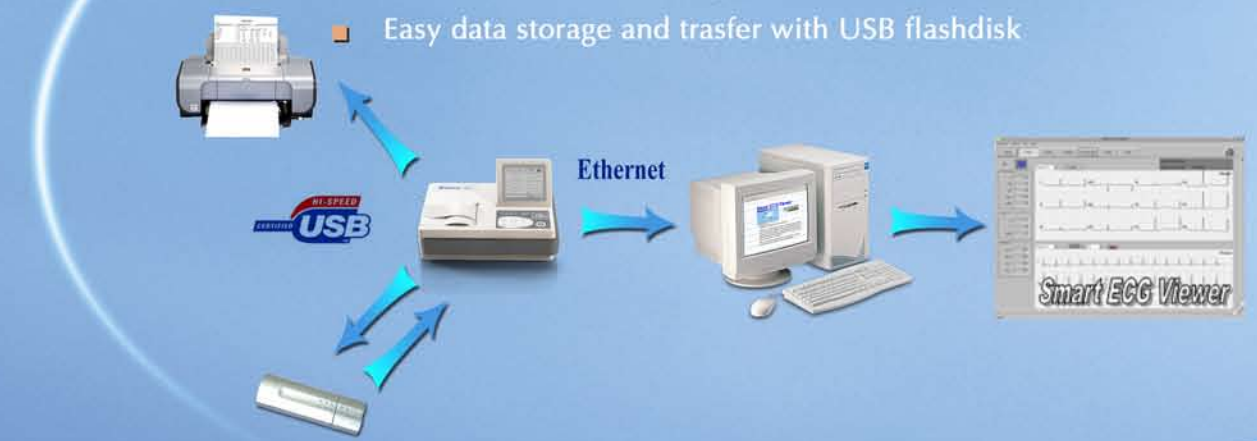
PC-based ECG data management software

- Complete digital filtering, resisting baseline drift, AC and EMG interference
- Automatic baseline adjustment
- Auto/manual work mode
- Lead-off detection and alert
- Three printing formats (Auto, manual and rhythm) selectable
- Heart rate variability (HRV) analysis



ECG-3F(Narrow Screen)

- 12 leads printing by external ink-jet printer
- Large patient data storage: 120 ECGs (Narrow Screen) 144 ECGs (Wide Screen)
- PC-based ECG data management software (option)
- Easy data storage and transfer with USB flashdisk



# ECG-1F Single Channel ECG

- Foldable LCD screen, vivid waveform display
- Built-in high-resolution thermal printer
- Built-in rechargeable Li-ion battery, AC/DC power supply
- Well designed membrane keyboard

- Digital filtering, resisting baseline drift, AC and EMG interference
- Automatic baseline adjustment
- Auto/manual work mode
- Lead-off detection and alert