

# Twelve Channel ECG

## SE-12 & SE-12 Express





# Twelve Channel ECG

	SE-12 Twelve Channel ECG	SE-12 Express Twelve Channel ECG
Input Circuit	Defibrillation protection built-in	
Lead	Standard 12 leads	
Acquisition Mode	simultaneous 12 lead acquisition (10-24 seconds adjustable)	
A/D Converter	24 bits	
Input Voltage Range	$\pm 5\text{mVpp}$	
Time Constant	$> 3.2\text{s}$	
Frequency Response	0.05Hz ~ 150Hz	
Calibration Voltage	1mV $\pm$ 2%	
Sensitivity	2.5, 5, 10, 20 ,10/5,AGC (mm/mV)	
Input Impedance	50M $\Omega$ (10Hz)	
Input Circuit Current	$\leq 10\text{nA}$	
Noise Level	$< 12.5 \mu\text{Vp-p}$	
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 25Hz/35Hz/45Hz/OFF DFT filter 0.05/0.15/0.25/0.5/0.32/0.67Hz Lowpass filter 150Hz/100Hz/75Hz AC filter 50 Hz/60Hz	
CMRR	$> 115\text{dB}$	
Recording Mode	Auto/Manual/Rhythm/R-R Analyse	
Rhythm Lead	Single lead or three leads selectable	
Power Supply	AC:100V-240V, 50/60Hz	
Battery	Built-in rechargeable Li-ion battery: voltage=14.8V, for about 200 copies ECG printing	Built-in rechargeable Li-ion battery: voltage=14.8V, for about 400 copies ECG printing
Recorder	Thermal printer	
Record paper	Folded paper, Rolled paper	
Paper width	216mm , 210mm	
Record Speed	5mm/s,10mm/s,12.5mm/s,25mm/s,50mm/s ( $\pm$ 3%)	
Dimension	420mm x 330mm x 105mm	420mm x 330mm x 120mm
Display	320 x 240 dot single color LCD	800 x 600 multicolor LCD
External Input/Output	Input: $\geq 100\text{K}\Omega$ ; Sensitivity 10mm/V $\pm$ 5% Output: $\leq 100\Omega$ ; Sensitivity 1V/mV $\pm$ 5%	
Communication ports	Ethernet, RS232	



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Features and specifications are subject to change without notice

ENG-ECG- SE12 -V1.1-20091202

- 5.7 inch foldable LCD screen
- Alphanumeric keyboard and one touch operation
- Sleep mode to save energy and extend LCD life
- Complete digital filters, resisting baseline drift, AC and EMG interference
- Automatic measurement and interpretation tested with authoritative CSE database
- Real-time waveform freezing
- 120s seconds ECG waveform reviewable
- Two-step exercise test with periodic recording
- Built-in rechargeable Li-ion battery
- 100 ECGs in internal memory

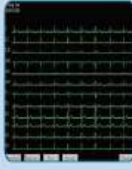
**Option:**

- PC-based data management software (Smart ECG Viewer)





SE-12

# Twelve Channel ECG




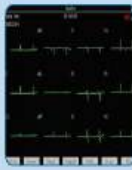
*Preview and print:* It is possible to preview reports for both real-time printing and file storage.



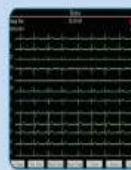



*Display filter:* Change template waveform together with accurate interpretations generated by authority CSE DATABASE (IEC 60601-2-33) which supports measurement, diagnosis and Minnesota code.






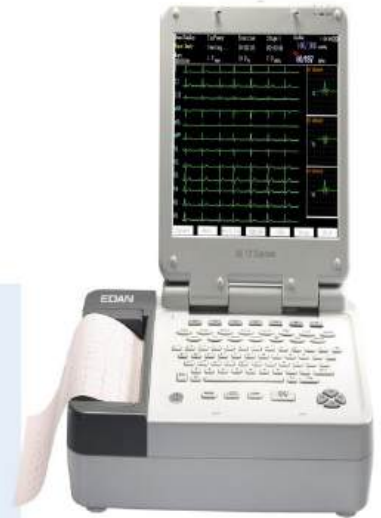
*Waveform process:* Doctor can edit the printing ratio, printing speed, sensitivity, and filter setting to get better waveform based on repeated measurement.





*File storage and search:* Patient data is stored on storage (including waveform, measurement and diagnosis) which could also be enlarged by flash disk or PC hard disk. Support report search from internal memory.





## SE-12 Express

- 12.1 inch color touch-screen
- Alphanumeric keyboard and one touch operation
- Automatic measurement and interpretation tested with authoritative CSE database
- Real-time waveform freezing
- 120 seconds ECG waveform reviewable
- Waveforms and diagnosis results preview before printing
- Automatic arrhythmia detection and recording
- 200 ECGs in internal memory
- Heart rate variability (HRV) analysis

**Stress test option:**

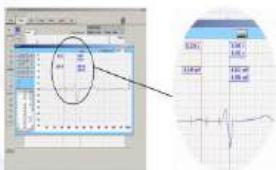
- Treadmills or bicycles and Suntech tango+ exercise blood pressure monitor supported
- Customized exercise protocols

**ST analysis and reports**

**Other options:**

- PC-based data management software (Smart ECG Viewer)
- Trolley and cable bracket

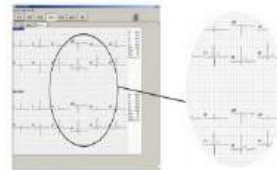
## Smart ECG Viewer



Manual Measurement



Interpretation



Compare Viewing for Different Examination

## Stress Test upgradeable



- 5.7 inch foldable LCD screen
- Alphanumeric keyboard and one touch operation
- Sleep mode to save energy and extend LCD life
- Complete digital filters, resisting baseline drift, AC and EMG interference
- Automatic measurement and interpretation tested with authoritative CSE database
- Real-time waveform freezing
- 120s seconds ECG waveform reviewable
- Two-step exercise test with periodic recording
- Built-in rechargeable Li-ion battery
- 100 ECGs in internal memory

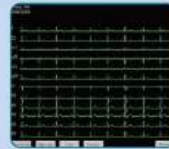
**Option:**

- PC-based data management software (Smart ECG Viewer)

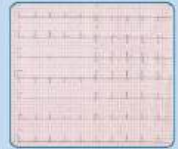


SE-12

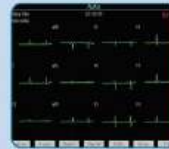
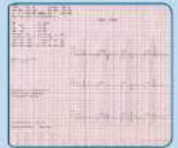
# Twelve Channel ECG



*Preview and print: We make it possible to preview report for both real-time printing and file storage*



*Useful tools: Average template waveform together with accurate interpretation appreciated by authority CSE DATABASE (IEC 60601-2-51) which supplies measurement, diagnosis and Minnesota code*



*Waveform process: Doctor can edit the printing style, printing speed, summary, and filter setting to get better waveform instead of repeated examination*

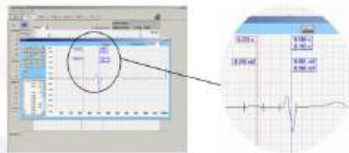
*Replay and record: Freeze and review waveform backward and forward per second or page in group every arbitrary than print out*



*File storage and Search: Fastest data in internal storage including waveforms, measurement and diagnosis which could also be enlarged by flash disk or PC hard disk, support report search from internal memory*



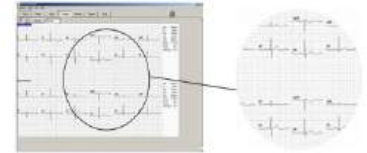
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