



## ECG-12 & ECG-12 Plus Twelve Channel ECG

|                           | ECG-12 Twelve Channel ECG   | ECG-12 Plus 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       | ± 5mVpp   |  |
| Time Constant             | > 3.2s  |  |
| Frequency Response        | 0.05Hz ~ 150Hz (-3dB)   |  |
| Calibration Voltage       | 1mV ± 2%  |  |
| Sensitivity               | 2.5, 5, 10, 20, 10/5, AGC (mm/mV)   |  |
| Input Impedance           | > 50MΩ (10Hz)   |  |
| Input Circuit Current     | < 10nA  |  |
| Noise Level               | < 12.5 μVp-p  |  |
| Anti Baseline Drift       | Automatic   |  |
| Patient Leakage Current   | NC: < 10 μA (AC)/10 μA (DC)   | SFC: < 50 μA (AC)/50 μA (DC)   |
| Patient Auxiliary Current | NC: < 10 μA (AC)/10 μA (DC)   | SFC: < 50 μA (AC)/50 μA (DC)   |
| Filter                    | EMG filter 25Hz/35Hz/45Hz/OFF<br>DFT filter 0.05/0.15/0.25/0.5/0.32/0.67Hz<br>Lowpass filter 150Hz/100Hz/75Hz<br>AC filter 50 Hz/60Hz |  |
| CMRR                      | > 115 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 (± 3%)  |  |
| Dimension                 | 420mm x 330mm x 105mm   | 420mm x 330mm x 120mm  |
| Display                   | 320 x 240 LCD   | 800 x 600 TFT color LCD  |
| External Input/Output     | Input: > 100KΩ; Sensitivity 10mm/V ± 5%<br>Output: < 100Ω; Sensitivity 1V/mV ± 5%   |  |
| Communication ports       | Ethernet, RS232, USB  |  |

# electro- CARDIOGRAPH

## ECG-12 ECG-12 Plus

12-channel ECG



# ECG-12

- 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 (ECG-Viewer)



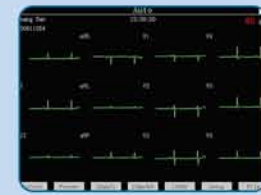
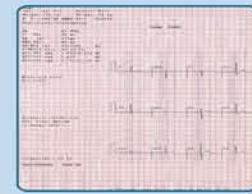
# Twelve Channel ECG



**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, sensitivity, and filter setting to get better waveforms instead of repeated examination

**Replay and record:** Freeze and review waveform backward and forward per second or page to grasp every arrhythmia then print out



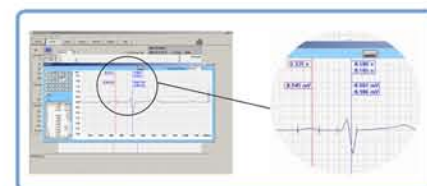
**File storage and Search:** Patient data in internal storage including waveforms, measurement and diagnosis which could also be enlarged by flash disk or PC hard disk, support report search from internal memory



# ECG-12 Plus

- 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 (ECG-Viewer)
  - Trolley and cable bracket

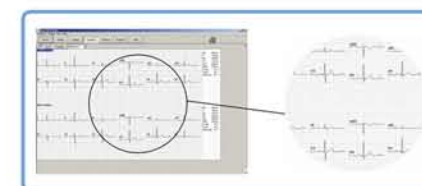
# ECG-Viewer



Manual Measurement



Interpretation



Compare Viewing for Different Examination

Stress Test upgradeable