

# SE-1200 Express

## Electrocardiograph



### Specification

|                                |                               |                                                                                                                                                        |
|--------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Physical Specifications</b> | Dimensions                    | 420mm×330mm×120mm                                                                                                                                      |
|                                | Weight                        | 5kg (Excluding recorder paper and battery)                                                                                                             |
|                                | Display                       | 8 inch, 800×600 multicolor LCD screen (touch screen as optional)                                                                                       |
| <b>Power Supply</b>            | Mains Supply:                 | Operating Voltage = 100V-240V<br>Operating Frequency = 50Hz/60Hz<br>Input Current = 0.9-0.4A                                                           |
|                                | Internal Li-ion Battery Pack: | Rated voltage = 14.8V<br>Rated capacity = 2500/5000mAh<br>(1.5/2.5 hours continuous printing, 300/450 ECG reports)<br>Necessary Charge time: 3/6 hours |
| <b>Recording</b>               | Recorder:                     | Thermal dot-matrix recorder                                                                                                                            |
|                                | Printing Density:             | 8 dots per mm / 200 dots per inch (amplitude axes)<br>40 dots per mm / 1000 dots per inch (time axes, @ 25 mm/s)                                       |
|                                | Recorder Paper:               | Folded thermal paper: 210mm×295mm×100pages<br>Folded thermal paper: 215mm×280mm×100pages (Optional)<br>Rolled thermal paper: 210mm×30m (Optional)      |
|                                | Paper Speed:                  | 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s                                                                                                      |
|                                | External Printer:             | HP2010/2132/1050/2000, HPM401/2015/2035,<br>HP1106/1020P, HP1112/4729/3638, HPM202D/1525/M403D                                                         |
| <b>HR Recognition</b>          | HR Range:                     | 30 BPM ~300 BPM                                                                                                                                        |
|                                | Accuracy:                     | ±1 BPM                                                                                                                                                 |
| <b>ECG Unit</b>                | Leads:                        | 12 standard leads                                                                                                                                      |
|                                | Acquisition Mode:             | Simultaneously 12 leads                                                                                                                                |
|                                | A/D Converter:                | 24 bits                                                                                                                                                |
|                                | Resolution:                   | 0.1192uV/LSB                                                                                                                                           |
|                                | Time Constant:                | ≥5s                                                                                                                                                    |
|                                | Frequency Response:           | 0.01Hz ~ 500Hz (-3dB)                                                                                                                                  |
|                                | Gain:                         | 1.25, 2.5, 5, 10, 20, 10/5 mm/mV, AGC                                                                                                                  |
|                                | Input Impedance:              | ≥100MΩ (10Hz)                                                                                                                                          |
|                                | Input Circuit Current:        | ≤0.01μA                                                                                                                                                |
|                                | Input Voltage Range:          | ≤±5 mVpp                                                                                                                                               |
|                                | Calibration Voltage:          | 1mV±2%                                                                                                                                                 |
|                                | CMRR:                         | ≥140dB (AC on)                                                                                                                                         |

|                                   |                                                                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | ≥123dB (AC off)                                                                                                                          |
|                                   | Sampling Frequency: 64,000 Hz                                                                                                            |
| <b>Pacemaker</b>                  | Amplitude: ±750μV to ±700 mV                                                                                                             |
|                                   | Width: 50μs to 2.0 ms                                                                                                                    |
| <b>Filter</b>                     | AC Filter: 50/60Hz                                                                                                                       |
|                                   | DFT Filter: 0.01Hz/0.05Hz/0.15Hz/0.25Hz/0.32Hz/0.5Hz/0.67Hz                                                                              |
|                                   | EMG Filter: Off/25Hz/35Hz/45Hz                                                                                                           |
|                                   | LOWPASS Filter: 350Hz/300Hz/270Hz/150Hz/100Hz/75Hz                                                                                       |
| <b>Data Transmission</b>          | Report Format: PDF, XML, DICOM, FDA-SCP                                                                                                  |
|                                   | Data Transmission: Wi-Fi, Ethernet, RS232                                                                                                |
|                                   | Data Management System: SE-1515 Data Management System, bi-directional communication                                                     |
|                                   | HIS connection: DICOM Worklist/DICOM Storage/HL7/GDT                                                                                     |
| <b>Wi-Fi</b>                      | Transmitting Frequency: 2400-2497MHz                                                                                                     |
|                                   | Frequency Band: 2400-2497MHz                                                                                                             |
|                                   | Modulation Type: DSSS, CCK, OFDM                                                                                                         |
|                                   | Transmitting Power: 6 - 17dBm                                                                                                            |
|                                   | Effective Radiated Power: 6 - 17dBm                                                                                                      |
| <b>Safety Specifications</b>      | Comply with: IEC 60601-1:2005/A1:2012<br>EN 60601-1:2006/A1:2013<br>IEC 60601-1-2:2007<br>EN 60601-1-2:2007/AC:2010<br>IEC/EN 60601-2-25 |
|                                   | Anti-electric-shock type: Class I with internal power supply                                                                             |
|                                   | Anti-electric-shock degree: CF type with defibrillation-proof                                                                            |
|                                   | Patient Leakage Current: NC <10μA (AC) / <10μA (DC)<br>SFC <50μA (AC) / <50μA (DC)                                                       |
|                                   | Patient Auxiliary Current: NC <10μA (AC) / <10μA (DC)<br>SFC <50μA (AC) / <50μA (DC)                                                     |
|                                   |                                                                                                                                          |
| <b>Environment Specifications</b> | Temperature: Transport & Storage: -20°C (-4°F) ~ +55°C (+131°F)<br>Working: +5°C (+41°F) ~ +40°C (+104°F)                                |
|                                   | Relative Humidity: Transport & Storage: 25%~93% Non-Condensing<br>Working: 25%~80% Non-Condensing                                        |
|                                   | Atmospheric Pressure: Transport & Storage: 70kPa ~106kPa<br>Working: 86kPa ~106kPa                                                       |