

# SE-1201

## Electrocardiograph

Version 1.4



## Technical Specifications

### Physical Specifications

#### Dimensions

361mm×262mm×135mm

#### Weight

≤4.2kg (Excluding recorder paper and battery)

#### Display

7 inch, 800×480 multicolor LCD screen (touch screen as optional)

### Power Supply

#### Mains Supply

Operating Voltage = 100V-240V~

Operating Frequency = 50Hz/60Hz

Input Current = 0.9-0.4A

#### Internal Li-ion Battery Pack

Rated voltage = 14.8V

Rated capacity = 2500/5000mAh

(4/8 normal work hours)

Necessary Charge time: 3 hours

### Recording

#### Recorder

Thermal dot-matrix recorder

#### Recorder Paper:

Folded thermal paper:

210mm×140mm×144 pages

Folded thermal paper:

215mm×280mm×100 pages (Optional)

Folded thermal paper:

210mm×295mm×100 pages (Optional)

#### Printing Density:

8 dots per mm / 200 dots per inch (amplitude axes)

40 dots per mm / 1000 dots per inch (time axes, @ 25 mm/s)

#### Paper Speed:

5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s (±3%)

#### External Printer:

HP2010/2132/1050/2000, HPM401/2015/2035,

HP1106/1020P, HP1112/4729/3638, HPM202D/1525/M403D

## HR Recognition

<b>HR Range</b>	<b>Accuracy</b>
30 BPM ~300 BPM	±1 BPM

## ECG Unit

<b>Leads:</b>	<b>Acquisition Mode:</b>
12 standard leads	Simultaneously 12 leads
<b>A/D Converter:</b>	<b>Resolution:</b>
24bits	0.1192uV/LSB
<b>Time Constant:</b>	<b>Frequency Response:</b>
≥5s	0.01Hz ~ 500Hz (-3dB)
<b>Sampling Frequency:</b>	<b>Gain:</b>
64,000 Hz	1.25, 2.5, 5, 10, 20, 10/5 mm/mV, AGC
<b>Input Impedance:</b>	<b>Input Circuit Current:</b>
≥100MΩ (10Hz)	≤0.01μA
<b>Input Voltage Range:</b>	<b>Calibration Voltage:</b>
≤±5 mVpp	1mV±2%
<b>CMRR:</b>	<b>QTc Formulas:</b>
≥140dB (AC on)	Bazzet, Fridericia, Framingham, Hodges, and QRS
≥123dB (AC off)	

## Pacemaker

<b>Amplitude:</b>	<b>Width:</b>
±500μV to ±700 mV	30μs to 2.0 ms

## Filter

<b>AC Filter:</b>	<b>DFT Filter:</b>
50/60Hz	0.01Hz/0.05Hz/0.15Hz/0.25Hz/0.32Hz/0.5Hz/0.67Hz
<b>EMG Filter:</b>	<b>LOWPASS Filter:</b>
Off/25Hz/35Hz/45Hz	350Hz/300Hz/270Hz/150Hz/100Hz/75Hz

## Data Transmission

<b>Report Format:</b>	<b>Data Transmission:</b>
PDF, XML, DICOM, FDA-SCP	Wi-Fi, Ethernet, RS232
<b>Data Management System:</b>	<b>HIS connection:</b>
SE-1515 Data Management System, bi-directional communication	DICOM Worklist/DICOM Storage/HL7/GDT
<b>Data Storage:</b>	
800 ECGs	

## Wi-Fi

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### Transmitting Frequency:

2400-2497MHz

### Modulation Type:

DSSS, CCK, OFDM

### Effective Radiated Power:

6 - 17dBm

### Frequency Band:

2400-2497MHz

### Transmitting Power:

6 - 17dBm

## Safety Specifications

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### Comply with:

IEC 60601-1:2005/A1:2012

EN 60601-1:2006/A1:2013

IEC 60601-1-2:2014

EN 60601-1-2:2015

IEC/EN 60601-2-25

### Patient Auxiliary Current

NC <10 $\mu$ A (AC) / <10 $\mu$ A (DC)

SFC <50 $\mu$ A (AC) / <50 $\mu$ A (DC)

### Anti-electric-shock type:

Class I with internal power supply

### Patient Leakage Current:

NC <10 $\mu$ A (AC) / <10 $\mu$ A (DC)

SFC <50 $\mu$ A (AC) / <50 $\mu$ A (DC)

### Anti-electric-shock degree:

CF type with defibrillation-proof

## Environment Specifications

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### Temperature:

Transport & Storage: -20°C (-4°F) ~  
+55°C (+131°F)

Working: +5°C (+41°F) ~ +40°C (+104°F)

### Atmospheric Pressure:

Transport & Storage: 70kPa ~106kPa

Working: 86kPa ~106kPa

### Relative Humidity:

Transport & Storage: 25%~93% Non-Condensing

Working: 25%~80% Non-Condensing