

# 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

#### 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)

#### 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)

#### 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

### HR Range

30 BPM ~300 BPM

### Accuracy

±1 BPM

## ECG Unit

### Leads:

12 standard leads

### Acquisition Mode:

Simultaneously 12 leads

### A/D Converter:

24bits

### Resolution:

0.1192uV/LSB

### Time Constant:

≥5s

### Frequency Response:

0.01Hz ~ 500Hz (-3dB)

### Sampling Frequency:

64,000 Hz

### Gain:

2.5, 5, 10, 20, 40, 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)

### QTc Formulas:

Bazzet, Fridericia, Framingham, Hodges, and QRS

## Pacemaker

### Amplitude:

±500μV to ±700 mV

### Width:

30μs to 2.0 ms

## Filter

### 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

## Data Transmission

### 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

### Data Storage:

800 ECGs

## Wi-Fi

### Transmitting Frequency:

2400-2497MHz

### Modulation Type:

DSSS, CCK, OFDM

### Effective Radiated Power:

6 - 17dBm

### Frequency Band:

2400-2497MHz

### Transmitting Power:

6 - 17dBm

## Safety Specifications

### 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

### 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