

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

HR Range	Accuracy
30 BPM ~300 BPM	±1 BPM

ECG Unit

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

Pacemaker

Amplitude:	Width:
±500μV to ±700 mV	30μs to 2.0 ms

Filter

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

Data Transmission

Report Format:	Data Transmission:
PDF, XML, DICOM, FDA-SCP	Wi-Fi, Ethernet, RS232
Data Management System:	HIS connection:
SE-1515 Data Management System, bi-directional communication	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 μ A (AC) / <10 μ A (DC)

SFC <50 μ A (AC) / <50 μ A (DC)

Anti-electric-shock type:

Class I with internal power supply

Patient Leakage Current:

NC <10 μ A (AC) / <10 μ A (DC)

SFC <50 μ A (AC) / <50 μ 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