SE-1201 Pro

Electrocardiograph

Version 1.

Technical Specifications

Physical Specifications

Dimensions

298mm×258mm×82.5mm

Weight

4kg (Excluding recorder paper and battery)

Display

10.1" LCD full-touch screen, at a resolution of 1920x1200 The display can be flipped 25 degrees clockwise.

Power Supply

Mains Supply

Operating Voltage = AC 100V-240V Operating Frequency = 50Hz/60Hz Output Power: 19V 2.52A

Internal Li-ion Battery Pack

Rated voltage = 14.8VRated capacity = 2,500 m Ah Necessary Charge time: ≤ 3 hours

Recording

Recorder

Thermal dot-matrix recorder

Recorder Paper:

Folded thermal paper: 210 mm×140 mm

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:

HP M401, HP 1106/1020P, HP LaserJet P2035, HP Laser jet Pro M403D, HP LaserJet pro M202DW, HP Desk Jet 4729, HP Desk Jet 3638, HP1112, HP2132



HR Recognition HR Range Accuracy 30 BPM ~300 BPM ±1 BPM **ECG Unit** Leads: **Acquisition Mode:** 9 or 12 standard leads 9 or 12 leads acquisition simultaneously A/D Converter: **Resolution:** 24bits 0.1192uV/LSB **Time Constant: Frequency Response:** $\geq 5s$ 0.01Hz ~ 350Hz (-3dB) **Sampling Frequency:** Gain: 64,000 Hz 1.25, 2.5, 5, 10, 20, 10/5, AGC (mm/mV) (±5%) **Input Impedance: Input Circuit Current:** $\geq 100 M\Omega (10 Hz)$ ≤0.01µA **Input Voltage Range: Calibration Voltage:** $\leq \pm 5 mVp-p$ $1 \text{mV} \pm 2\%$ **CMRR: Sampling Frequency:** ≥ 140 dB (AC on) 64,000 Hz/channel ≥123dB (AC off)

Pacemaker

Amplitude: ±500µV to ±700 mV

Sampling Frequency 80,000 Hz, Rhythm Lead

Filter

AC Filter: Off/50Hz/60Hz

EMG Filter: Off/25Hz/35Hz/45Hz

Data Transmission

Report Format: DAT, SCP, FDA-XML, DICOM (Encapsulated PDF), DICOM (ECG Waveform), PDF, JPG, BMP, PNG, and TIFF

Data Management System:

Width: 30µs to 2.0 ms

DFT Filter: 0.01Hz/0.05Hz/0.32Hz/0.67Hz **LOWPASS Filter:** 350Hz/300Hz/270Hz/150Hz/100Hz/75Hz

Data Transmission: Wi-Fi, Ethernet, 4G network

Communication protocol:



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SE-1515 Data Management System, bidirectional communication FTP/DICOM/EDAN proprietary protocol

Wi-Fi	
Transmitting Frequency:	Frequency Band:
2.4GHz & 5GHz	2.4GHz and 5 GHz
	241 2 MHz – 2472 MHz (2.4GHz)
	51 50 MHz – 5850 MHz (5GHz)
Modulation Type:	Transmitting Power:
DBPSK, DQPSK, CCK, BPSK, QPSK,	≤1 7 dBm (2.4GHz)
16-QAM, 64-QAM, GFSK, π/4-	$\leq 1.7 \text{ dBm} (5 \text{GHz})$
DQPSK, 8-DPSK	

4G (Option)

Bands

FDD LTE: Band 1, Band 2, Band 3, Band 4, Band 5, Band 7, Band 8, Band 3, Band 1 2, Band 1 7, Band 20, all bands with diversity

TDD LTE: Band 34, Band 38, Band 39, Band 40, Band 41, all bands with diversity

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 <10μA (AC) / <10μA (DC) SFC <50μA (AC) / <50μA (DC)

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: 70kPa ~106kPa Class I with internal power supply **Patient Leakage Current:** NC <10µA (AC) / <10µA (DC) SFC <50µA (AC) / <50µA (DC)

Anti-electric-shock type:

Anti-electric-shock degree:

CF type with defibrillation-proof

Relative Humidity:

Transport & Storage: 15%~93%RH Non-Condensing Working: 15%~93% RH Non-Condensing

