

SE-18

Electrocardiograph



Specification

Physical Specifications	Dimensions	438mm×395mm×135mm
	Weight	9.5kg (Excluding recorder paper and battery)
	Display	15 inch, 1024×768 multicolor LCD touch screen
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 = 5000mAh (1.75 hours continuous printing, 250 ECG reports) Necessary Charge time: 6 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×295mm×100pages Folded thermal paper: 215mm×280mm×100pages Folded thermal paper: 210mm×295mm×200pages
	Paper Speed:	5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s
	External Printer:	HP1010/1510, HP M401, HP 1020/1020PLUS/1106, HP 2010/1050/2000, HP 2015/2035, HP 1525
HR Recognition	HR Range:	30 BPM ~300 BPM
	Accuracy:	±1 BPM
ECG Unit	Leads:	18 standard leads
	Acquisition Mode:	simultaneously 18 leads
	A/D Converter:	24 bits
	Resolution:	0.1575 μ V/LSB
	Time Constant:	\geq 3.2s
	Frequency Response:	0.01Hz ~ 300Hz (-3dB)
	Gain:	2.5, 5, 10, 20, 10/5 mm/mV, AGC
	Input Impedance:	\geq 100M Ω (10Hz)
	Input Circuit Current:	\leq 0.01 μ A
	Input Voltage Range:	\leq ±5 mVpp
	Calibration Voltage:	1mV \pm 2%
CMRR:	\geq 140dB (AC on)	

	≥123dB (AC off)
	Sampling Frequency: 16000 Hz
Pacemaker	Amplitude: ±750μV to ±700 mV
	Width: 50μs to 2.0 ms
Filter	AC Filter: 50/60Hz
	DFT Filter: 0.01Hz/0.05Hz/0.32Hz/0.67Hz
	EMG Filter: Off/25Hz/35Hz/45Hz
	LOWPASS Filter: 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
Wi-Fi	Transmitting Frequency: 2.4GHz
	Frequency Band: 2.400-2.500GHz (2.4 GHz ISM band)
	Modulation Type: OFDM with BPSK, QPSK, 16-QAM, and 64-QAM 802.11b with CCK and DSSS
	Transmitting Power: 17 dBm for 802.11b DSSS 17 dBm for 802.11b CCK 15 dBm for 802.11g/n OFDM
Safety Specifications	Comply with: IEC 60601-1:2005/A1:2012 EN 60601-1:2006/A1:2013 IEC 60601-1-2:2007 EN 60601-1-2:2007/AC:2010 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) SFC <50μA (AC) / <50μA (DC)
	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)
	Relative Humidity: Transport & Storage: 15%~95% Non-Condensing Working: 15%~95% Non-Condensing
	Atmospheric Pressure: Transport & Storage: 70kPa ~106kPa Working: 70kPa ~106kPa