

H3 Electrocardiograph

Technical Specifications



Safety Standards	IEC60601-1	Medical Electrical Equipment-Part 1: General Requirements for Safety and essential performance
	IEC60601-2-25	Medical Electrical Equipment-Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs

Product specification

	IEC 60601-1-2	Medical Electrical Equipment-Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests
	EC11	Single channel and multichannel of electrocardiographs

Dimension	235mm×190mm×52.6mm
Weight	1.18kg (including main unit, recorder and battery, not including accessories)
Display	6.2 inch LCD color touch screen with resolution of 800×480 pixels

Work Environment	Work Temperature	5℃～40℃
	Relative Humidity	≤93%
	Atmospheric Pressure	700hPa～1060hPa

Transport and storage environment	Temperature	-20℃～+60℃
	Relative Humidity	≤93%
	Atmospheric Pressure	700hPa～1060hPa
	Must avoid severe shock ,vibration, rain and snow during transport	

AC Power Supply	Rated voltage	100-240V~
	Rated frequency	50Hz/60Hz
	Rated input power	40VA
Battery	Specifications	11.1V === 2600mAh
	Charge time	Under ambient temperature of $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$, charge to 90% for less than 3 hours and charge to 100% for less than 3.4 hours.
	Discharge time	For a fully charged battery under ambient temperature of $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$, the electrocardiograph should print at least 500 ECG reports, or conduct continuous recording for at least 2 hours, or conduct recording with no record paper for at least 7 hours.

Recorder	Recording Method	Thermal dot-matrix printing
	Record Paper	80mm×70mmFolded thermosensitive paper 80mm×20mRolled thermosensitive paper
	Width of Record Paper	80mm

Product specification

	Valid Recording Width	72mm
	Paper Speed	5 mm/s, 6.25 mm/s, 10mm/s, 12.5 mm/s, 25mm/s, 50mm/s; Error: $\pm 2\%$

Main Unit	HR calculation	Peak detection
	Input Method	With defibrillator-proof protection
	Leads	Standard 12 leads and switching leads automatically
	Heart rate measurement range and accuracy	30~300bpm; $\pm 1\%$ or $\pm 1\text{bpm}$, whichever is greater
	Sampling Mode	12 channels simultaneously
	Time Constant	$\geq 5\text{s}$
	Frequency Characteristics	0.05Hz ~ 150Hz $\left(\begin{smallmatrix} +0.4\text{dB} \\ -3.0\text{dB} \end{smallmatrix} \right)$
	Sensitivity	2.5mm/mV, 5mm/mV, 10mm/mV, 20mm/mV, 20/10mm/mV, 10/5 mm/mV and AGC. The default sensitivity is 10mm/mV. Error: $\pm 2\%$
	Input Impedance	$\geq 50\text{M}\Omega$
	Stand Voltage	Applying $\pm 650\text{mV}$ d.c. polarization voltage, the range of sensitivity is $\pm 5\%$.

Product specification

	Input Circuit Current	$\leq 50\text{nA}$
	Calibration Voltage	$1\text{mV} \pm 1\%$
	Noise Level	$< 15 \mu \text{V}_{\text{p-p}}$
	Multichannel crosstalk	$\leq 0.5\text{mm}$
	The skew between channels	$< 100 \mu \text{s}$
	Filter	AC Filter: 50Hz, 60Hz, OFF
		DFT Filter: OFF, 0.05Hz, 0.10Hz, 0.20Hz, 0.50Hz
		EMG Filter: 25Hz, 35Hz, 45Hz, OFF
		LOWPASS Filter: OFF, 75Hz, 100Hz, 150Hz
	CMRR	$\geq 110\text{dB}$
Standby Function		The response time of exiting standby status is less than 10s.

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