

Specification: H3



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Three-channel Electrocardiograph H3



Safety Standards:

ISO 13485:2016 approved, CE marking according to MDD93/42/EEC, IEC60601-1, IEC60601-2-25, IEC 60601-1-2, EC11, Class I with internal power supply, Type CF

Physical Characteristics:

Product Size: 235mm *190mm*52.6mm
Net Weight: 1.18kg (including main unit, recorder and battery, not including accessories)

Operation Environment:

Working
Temperature: 5-40°C
Humidity: ≤93%
Power Supply: 100-240V~, 50/60Hz±1Hz
Battery Type: Rechargeable Lithium-ion battery
Battery Capacity: 2600mAh
Battery Recharging
Time: Maximum 3.4 hours for charging;
Battery backup: 2 hours for continuous working (7 hours without paper recording)
Display: 6.2" color LCD touch screen
Resolution: 800*480
Trace: 12 waveforms
Brightness: Automatic adjustment/ Manual from 1 to 10

Indicator:

Power indicator
Battery indicator
QRS beep
Operating key sound

Interface:

Parameter cable interface
AC power input socket
Two USB port
RJ45 port

Optional: Built in WIFI module/ keyboard, mouse and scanner

Data storage:

Standard 8G micro SD card for 40000 ECGs
internal memory 200 patient cases
Format: OFF, DAT (binary), BMP, JPG, PDF, DICOM, XML, SCP

Power-off storage: Yes

Network: Connected to PCECG by hardwire/wireless

Display:

Parameter: Patient ID, gender, age, waveforms, recording/sweep speed, gain, EMG filter, HR, leads status, clock, information message, network and USB, battery status
Format: 3×4, 6×2, simultaneously 12 leads display
Standby: OFF, 5min, 10min, 15min, 20min, 25min, 30min
Timing Power off: OFF, 10min~5hours

Recorder:

Type:	Built-in; thermal array
Record width:	80mm
Speed:	5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s; Error $\pm 2\%$
Printer Format:	3×4, 3×4+1R, 1×12, 1×12+1R
External printer Format:	3×4, 3×4+1R, 3×4+3R, 6×2, 6×2+1R, 1×12, 1×12+T
Print Mode:	Normal, One-key, Extend
Re-print:	Re-print out last patient case
Diagnostic Review:	10 min review for all 12 leads waveform info.

ECG:

Lead Type:	CardioTec™12-leads ECG Analysis
Lead selection:	12-Lead I; II; III; aVR; aVL; aVF; V1- V6.
Gain Selection:	2.5mm/mV, 5mm/mV, 10mm/mV, 20mm/mV, 20/10mm/mV, 10/5mm/mV and AGC
Sweep Speed:	6.25, 12.5, 25, 50mm/s
Heart Rate Range:	30-300bpm
Resolution:	1 bpm
Accuracy:	$\pm 1\%$ or $\pm 1\text{bpm}$ (whichever is greater)
Drift Filter:	OFF, 0.05Hz, 0.10Hz, 0.20Hz, 0.50Hz
EMG Filter:	OFF, 25Hz, 35Hz, 45Hz
Low Pass Filter:	OFF, 75Hz, 100Hz, 150Hz

AC Filter:	OFF, 50Hz, 60Hz
Protection:	Withstand 4000VAC/50Hz voltage in isolation; Against electrosurgical interference and defibrillation;

Arrhythmia analysis:	available
Pacemaker detection:	detectable

Processing:

Acquisition Mode:	pre/post-acquisition 10 seconds instantaneous ECG acquisition
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Frequency Response:	0.05Hz-150Hz: $\begin{pmatrix} +0.4dB \\ -3.0dB \end{pmatrix}$
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CMRR:	$\geq 110\text{dB}$
Input Impedance:	$\geq 50\text{M}\Omega$
Startup Time:	10 seconds
Digital Sampling Rate	1000 (Single channel) 8000 (Eight Channel)
AD conversion:	24Bits

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