# LeECG&NeoECG Series ECG Tablets

## Environment Requirements

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| Environment | Temperature (℃) | Relative Humidity | Atmospheric pressure (hPa) |
| Working | 0 – 40 | 15% – 85%, no condensation | 700 – 1060 |
| Storage and transportation | -20 – 55 | 15% – 95%, no condensation | 700 – 1060 |

## Physical and Hardware Specifications

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| Main unit |
| Physical specifications | Size | 7-inch screen model:197 mm × 112.4 mm × 26.1 mm (Length × Width × Height) | 10.1-inch screen model:272.6 mm × 181.2 mm × 25.8 mm (Length × Width × Height) |
| Weight | 7-inch screen model:0.8 Kg, including main unit, battery, without accessories | 10.1-inch screen model:1.2 Kg, including main unit, battery, without accessories |
| Screen | 7-inch screen model:7-inch, color LCD touch screen resolution: 1024 × 600 pixels | 10.1-inch screen model:10.1-inch, color LCD touch screen resolution: 1280 × 800 pixels |
| Power supply | AC power | Rated voltage: 100 – 240 V~ |
| Rated frequency: 50/60 Hz |
| Built-in rechargeable lithium ion battery | Rated voltage: 7.4 V |
| Rated capacity: 5000 mAh |
| Power supply time: When only the internal battery is used, the standby time is more than 72 hours, and the continuous working time is more than 12 hours under normal circumstances after the battery is fully charged. (collected every 5 minutes) |
| Charging time: Charge at least 5 hours before using the battery for the first time; when the battery is turned off and charged, the exhausted battery will be charged to 90% in less than 4 hours and fully charged in less than 5 hours. |
| Base |
| Physical specifications | Size | 274 mm × 288 mm ×111.2 mm (Length × Width × Height) |
| Weight | About 2.5 kg (including battery) |
| Power supply | AC power | Rated voltage: 100 – 240 V~ |
| Rated frequency: 50/60 Hz |
| Built-in rechargeable lithium ion battery | Rated voltage: 14.4 V |
| Rated capacity: 4400 mAh |
| Power supply time: When only the internal battery is used, the standby time is 72 hours, and the continuous working time is 12 hours under normal circumstances after the battery is fully charged. (printed every 5 minutes) |
| Charging time: Charge at least 5 hours before using the battery for the first time; when the battery is turned off and charged, the exhausted battery will be charged to 90% in no more than 4 hours and fully charged in less than 5 hours |
| Recorder | Type | Thermal recorder |
| Recording paper | Reel thermal recording paper, paper width: 216 mm |
| Paper driving rate | 5 mm/s, 6.25 mm/s, 10 mm/s, 12.5 mm/s, 25 mm/s, and 50 mm/s. The error is not greater than ±3% |
| Number of waveforms | Record up to 18 waveforms at the same time |
| Print resolution | Vertical resolution: 8 dots/mmHorizontal resolution: 40 dots/mm (Paper driving rate 25 mm/s) |

## ECG Parameter Specifications

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| HR measurement | Calculation method | Peak value detection |
| Measuring range | 30 bpm – 300 bpm |
| Measurement accuracy | ±1 bpm or ±1%, whichever is the largest |
| Main unit of the tablet | Lead | 9-lead, 12-lead, 15-lead or 18-lead simultaneous acquisition and analysis |
| A/D conversion | 24-bit |
| Sampling rate | 32000 dots/s |
| Common mode rejection ratio (CMRR) | ≥140 dB (Power frequency notch is turned on)≥ 120 dB (Power frequency notch is turned off) |
| Time constant | ≥ 5 s |
| Frequency response | Based on 10 Hz, (0.01 Hz – 350 Hz)＋0. 4 dB -3. 0 dB |
| Sensitivity | Auto, 2.5 mm/mV, 5 mm/mV, 10 mm/mV, 20 mm/mV, and 40 mm/mV. The error is not more than ±5% |
| Filter | AC filter: 50 Hz, 60 Hz, and off |
| EMG filter: 25 Hz, 35 Hz, 45 Hz, and off |
| Baseline drift filter: 0.01 Hz, 0.05 Hz, 0.32 Hz, and 0.67 Hz |
| Low pass filter: 75 Hz, 100 Hz, 150 Hz, 300 Hz, and off |
| Time base selection and accuracy | 5 mm/s, 6.25 mm/s, 10 mm/s, 12.5 mm/s, 25 mm/s and 50 mm/s. The allowable time measurement error within the range of 0.2 s – 2.0 s does not exceed ±3%. |
| Input impedance | ≥ 100 MΩ (10 Hz) |
| Input loop current | ≤ 10 nA |
| Calibration voltage | 1 mV±2% |
| Polarization voltage | ±900 mV, the waveform amplitude change is ±5% |
| System noise | ≤ 12.5 μV |
| Amplitude quantification | 0.95 μV/LSB |
| Electrode polarization recovery time | < 10 s |
| Pace pulse display | Display ECG signal for pacing pulses with an amplitude of ±2 mV – ±700 mV, a duration of 0.1 ms – 2.0 ms, a rise time of less than 100 µs, and a frequency of 100/min. |
| Minimum detection signal | 20 μVp-p |
| Analysis algorithm | ECG analysis diagnostic program |