# PCECG-500

## Pocket Electrocardiograph and Analysis System

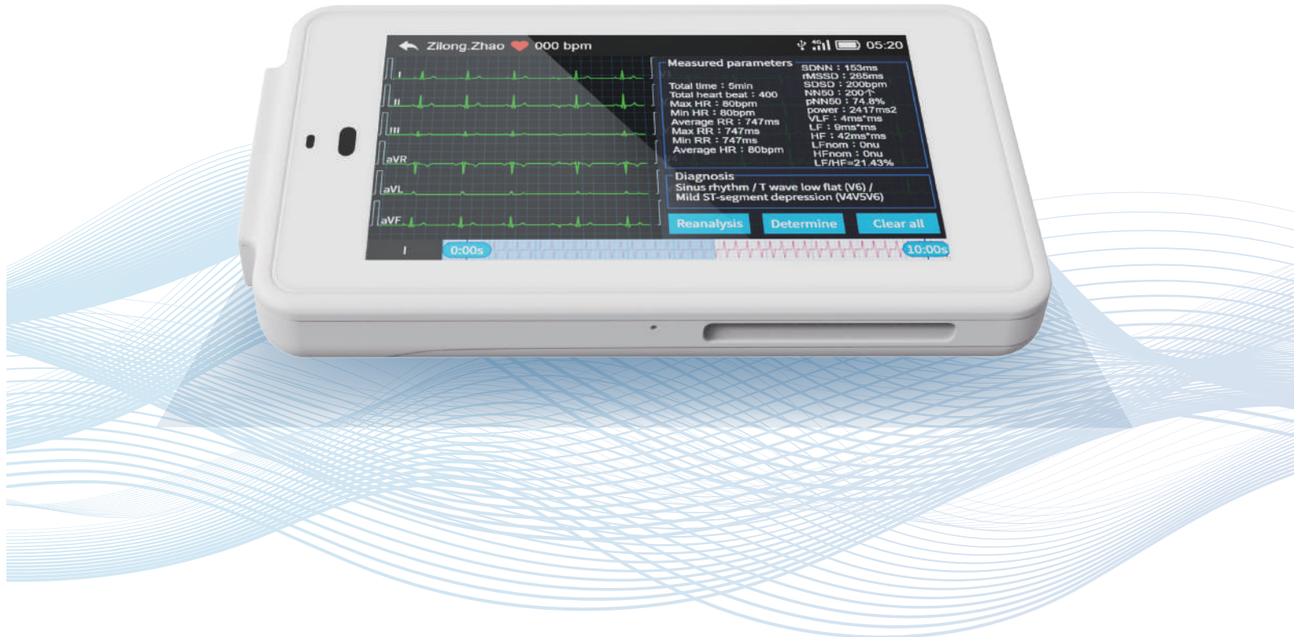
Viatom

Wellue®
Powered by Viatom

PCECG-500

## Technical Specification

| | | |
|---|---|---|
| Method | Method | Peak-peak detection |
| | Measurement range | 30bpm~300bpm |
| | Accuracy | ±1bpm |
| Main unit | Leads | 6/12-lead synchronous acquisition and analysis |
| | A/D conversion | 24 bits |
| | Sampling rate | 16,000Hz (2000 samples / sec) |
| | Common mode rejection ratio (CMRR) | ⩾100dB (AC filter on) |
| | Time constant | ⩾3.2s |
| | Frequency response | 0.05Hz ~ 150Hz, +0.4dB~-3.0dB, 10Hz |
| | Sensitivity | 2.5mm/mV, 5mm/mV, 10mm/mV, 20mm/mV |
| | | Accuracy: ±5% |
| | Filter | AC filter: 50Hz, 60Hz, Off |
| | | EMG filter: 25Hz, 35Hz, 45Hz, Off |
| | | ADS filter: 0.05Hz, 0.32Hz, 0.67Hz |
| | | Lowpass filter: 75Hz, 100Hz, 150Hz, Off |
| | Speed | 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s |
| | | Accuracy: ±3% |
| | Input impedance | ⩾50MΩ (10Hz) |
| | Calibration voltage | 1mV±5% |
| | Depolarization voltage | ±500mV |
| | Noise | ⩽30μVp-p |
| | Pacing pulse display | Pacing pulse with amplitude of 2mV~250mV, duration of 0.1ms~2.0ms, rise time of less than 100μs, and frequency of 100/min can be displayed on the ECG recording. |
| | ECG input signal range | ⩽±5mVp-p |
| | Minimum detectable signal | 20μVp-p |
| Analysis algorithm | CWECG-SLA ECG analysis program (6-lead) | |
| | Glasgow Resting ECG Analysis Program (12-lead) | |



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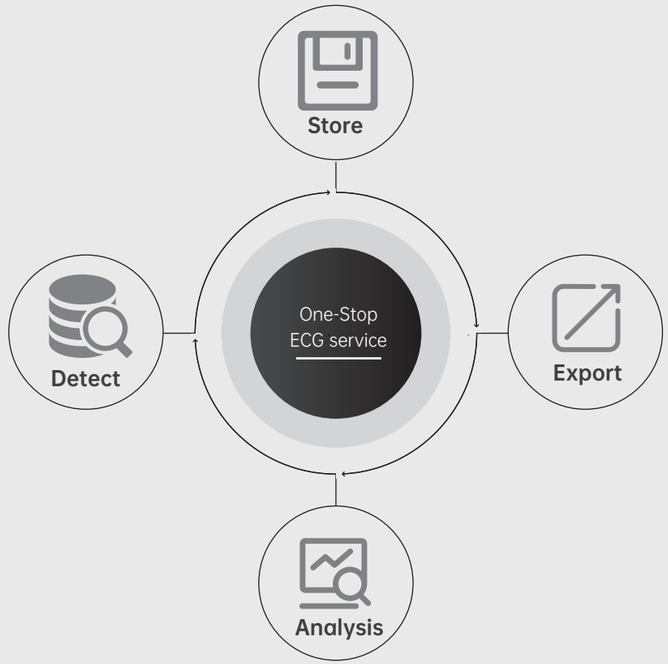


## Key Features

* Portable design, compact in size with low weight, easy for carry.
* Color touch screen, easy to operate.
* Can be powered by an external DC power supply or a built-in rechargeable lithium battery.
* Support synchronous acquisition and display of 6-lead / 12-lead waveform, as well as heart rate detection.
* Provide ECG algorithm to automatically analyze the acquired ECG waveform, output measured values and diagnosis results.
* Support auto mode and R-R mode.
* Provide 5 sampling modes: Real-time, Pre-sampling, Periodic, Trigger and R-R.
* Support automatic pacing detection and marking.
* Support ADS (Anti-drifting system) and EMG (electromyograph) interference.
* Accurately identify the electrode with poor contact and give instructions.
* Input patient information via full keyboard and barcode scanning.
* Freeze the ECG waveform on the screen.
* Output files in multiple formats, such as Carewell ECG, PDF, BMP, DAT.
* Auto-saving function: save the ECG data when the report is printed.
* Store, preview, review, edit, export, print and search patient data.
* Support wireless transmission of ECG data via Wi-Fi network.
* Print ECG reports through an external printer.
* Export patient data to USB drive via USB connector.

## Detect and Auto Record

Apart from REAL-TIME, PRE-SAMPLING, PERIODIC modes, PCECG-500 provides TRIGGER and R-R modes as well. Trigger sampling, if an arrhythmia occurs during the examination, the device will automatically trigger the printing and print out the waveform of the arrhythmia.
R-R sampling, you can perform waveform acquisition and data analysis for a lead for up to 180s, which is convenient for physicians to make detailed observations.

## Auto Interpretation

Reliable and accurate interpretations of ECGs are provided by Glasgow Resting ECG Analysis Program (12-lead) and CWECG-SLA ECG analysis program (6-lead). Widely trusted algorithms have been developed over many years in a clinical environment and continue to be enhanced

## One-stop ECG service

Compared to traditional ECG workstations, the PCECG-500 minimizes physician workload. Physicians can use one PCECG-500 to acquire, interpret and analyze, and manage patient ECGs. The built-in network hardware provides the possibility of data transfer and management within a local area network (FTP), easily connecting to the institution's centralized case management system and greatly reducing the consumption of paper copies.