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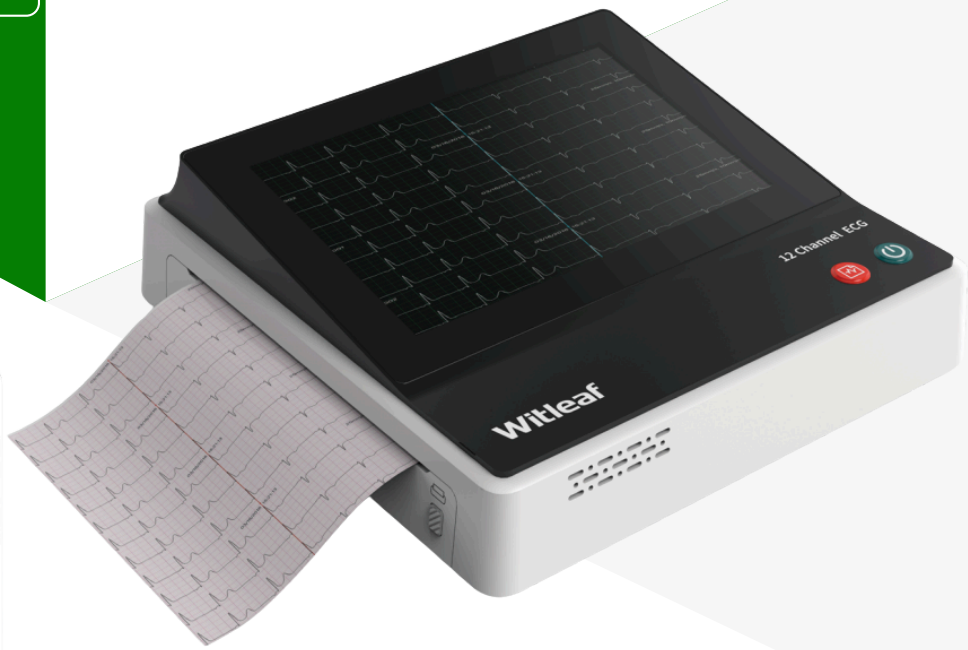
Electrocardiogram (ECG) Devices

Models: E500A E500B

Advanced ECG Solutions for Clinical Efficiency



E500B

12-inch screen, no keyboard

Overview

The E500A and E500B offer accurate 12-lead ECG monitoring with HD touchscreens, smart data management, and seamless PC/USB/LAN integration, ideal for efficient diagnostics in clinical settings.

E500A

10.1-inch screen with keyboard

HD Display

Touch Screen

Intelligent Setting

More Readable

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Features

- 12-lead ECG monitoring
- HD touchscreen display (10.1" for E500A, 12" for E500B)
- Intelligent ECG data management (XML, PDF, DICOM)
- One-touch workflow for ease of use
- IntelliSpace ECG Management System
- Built-in thermal recorder with 12-channel output
- Pacemaker pulse detection
- Barcode reader support
- Wired and wireless connectivity options
- USB and LAN (RJ45) interfaces
- Rechargeable lithium battery (over 4 hours runtime)
- Supports adults and pediatric patients

Accurate 12-lead ECG monitoring with smart data management

- IntelliSpace ECG Data Management System
- One-touch workflow for easy operation
- Output formats: XML, PDF, DICOM
- USB, Wired, Wireless connectivity
- Barcode Reader integration
- Supports both PC and USB drives

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Technical Specifications

ECG & Signal Processing

> Measurement Modes: Automatic, Manual, Rhythm
>Wire Type: 12 leads
>Standards: AHA, IEC
> Gain Settings:

- 2.0 mm/mV (×0.20)
- 2.5 mm/mV (×0.25)
- 5 mm/mV (×0.5)
- 10 mm/mV (×1)
- 20 mm/mV (×2)
- Accuracy: ±5%

> Scan Speeds: 5 / 10 / 12.5 / 25 / 50 mm/s (Accuracy ≤ ±5%)
> Baseline Drift Removal: 0.05Hz, 0.5Hz
> Lowpass Filter Options: 40Hz, 150Hz, 300Hz
> Frequency Response: 0.05Hz ~ 300Hz

> Common Mode Rejection Ratio (CMRR): ≥100 dB
> AC Filter: 50/60Hz
> Noise Level: ≤30μV (p-p)
> Input Signal Range: ±10 mV (peak-to-peak)
> Input Resistance: ≥10 MΩ (10Hz)
> Input Signal Reproducibility: ±5% system error
> Pacemaker Detection Sampling Rate: 8kHz/channel > Defibrillation Proof: 5000V, 360 J > Baseline Recovery Time After Defibrillation: <5 seconds
> Electrode Polarization Recovery Time: <10 seconds
> Decreased Defibrillation Energy: ≤10% (100Ω load)
> Calibration Signal: 1 mV (±5% accuracy)
> Channel Crosstalk: ≤0.5 mm under normal sensitivity
> AC Overload Protection: Withstands 1Vp-p at 50Hz/60Hz for 10 seconds

Measurement Specifications

> Lead Detection Current:

- Measuring electrode: ≤0.1μA
- Drive electrode: ≤1μA

> Minimum Signal: 10Hz sinusoidal signal with 20μVp-p deflection

> Baseline Stability: ≤1mm drift; ≤0.5mm/°C avg drift in operating temp

>Pacing Pulse Detection (Marked with "Pace" if):

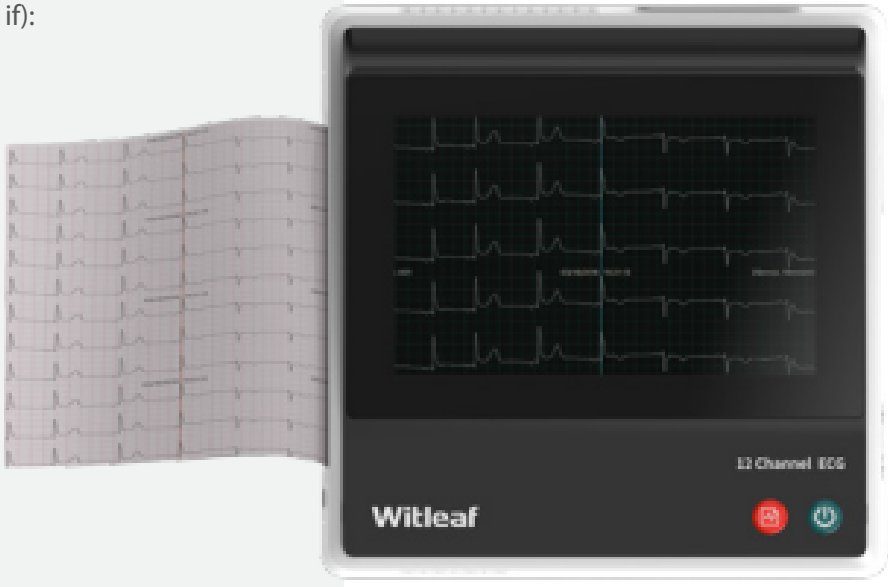
- Amplitude: ±2 mV – ±250 mV
- Width: 0.1 ms – 2 ms
- Rise Time: <100 μs
- Amplitude ≥0.2 mV RTI

>Analysis Method: 12-lead simultaneous

> Applicable Patients: Adults and children

>Measured Parameters:

- Heart Rate (bpm)
- PR Interval (ms)
- QRS Duration (ms)
- QT/QTc Interval (ms)
- P/QRS/T Axis (°)



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Specifications

Power Supply

- AC Input: 100V–240V, 50Hz/60Hz, 110VA
- Battery Type: Rechargeable lithium battery (3300mAh, 11.1V)
- Battery Runtime: >4 hours at 25°C ±5°C with standard configuration
- Charging Time: ≤7 hours (to 100% capacity with power off)

Hardware & Connectivity

- Screen Resolution: 1024 × 768
- Device Size: 400 × 350 × 120 mm (L×W×H)
- USB Ports: 2
- Network Interface: Standard RJ45 (LAN for data transfer/upgrades)
- Patient Cable Connector: DB15
- Record Type: Built-in thermal recorder
- Waveform Channels: 12
- Paper Feeding Speed: 12.5 / 25 / 50 mm/s (±5% accuracy)
- Recording Paper Size: 210 mm × 295 mm (Z-fold thermal)
- Vertical Resolution: ≥8 points/mm
- Horizontal Resolution: 40 dots/mm (at 25 mm/s)

GENERAL

10.1 inch

12inch

- **Display Type: LCD Touchscreen**
- **E500A: 10.1” with keyboard**
- **E500B: 12” without keyboard**

Environmental Conditions

Operating Environment:

- Temperature: 5–40°C
- Humidity: 15–95% RH
- Atmospheric Pressure: 70–106 kPa

Storage Environment:

- Temperature: -20–60°C
- Humidity: 10–95% RH (non-condensing)
- Atmospheric Pressure: 57.3–106 kPa

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