

Direct ECG

- Technique: peak detecting beat-to-beat cardiometer.
- Heart rate counting range: 30-240 BPM.
- Heart rate resolution: ± 1 BPM.
- Artifact elimination: switch selectable ± 25 BPM artifact rejection.
- Input signal range differential: 15 μV to 2 mV peak-to-peak (fetal), 100 μV to 2 mV peak-to-peak (maternal).
- Common mode: 20 VDC (max.).
- Preamp bandwidth: 1.0 Hz to 100 Hz.
- Common mode rejection: >120 dB balance.
With patient cable: >110 dB 5k RA or LA unbalance.
- Input equivalent noise: < 10 μV peak-to-peak.
- Input impedance: differential mode > 10 M Ω , common mode > 20 M Ω .
- Main frequency rejection: >40 dB.
- Leakage current: < 10 μA at 120 VAC.
- Isolation mains to patient connection: >2 kV.
- Leg plate tester: simulated r-wave at 120 ± 1 BPM.

Ultrasound

- Technique: pulsed doppler with autocorrelation processing.
- Pulse repetition frequency: 4kHz in single ultrasound mode, 2 kHz in dual ultrasound mode.
- Pulse duration: 92 μs .
- Center frequency: 1.151 MHz
- Intensity: <10 mW/cm²
- Heart rate counting range: 50-210 BPM.
- Leakage current: <10 μA at 120 VAC.

Pressure

- Range: 0-100 mmHg
- Toco transducer: 0-100 relative units (0-120 grams)
- Excitation voltage: +4.0 VDC
- Resolution: 1 mmHg
- Bandwidth: toco transducer DC to 0.5 Hz, strain gauge DC to 3 Hz
- Zero temperature drift: < 0.1 mmHg/ $^{\circ}\text{C}$ (electronics only).
- Leakage current: <10 μA at 120 VAC (transducer isolated).

Recorder

- Uterine activity: chart width: 4 cm, scaling: 25 mmHg/cm (3.33 kPa/cm), range: 0-100 mmHg, resolution: 1 mmHg.
- Chart drive: speeds: 1, 2 and 3 cm/min; accuracy: $\pm 1\%$.
- Heart rate scale: domestic - chart width 7 cm, scaling 30 BPM/cm, range 30-240 BPM, resolution 1 BPM; international: chart width 8 cm, scaling 20 BPM/cm, range 50-210 BPM, resolution 1 BPM

Power Requirements

- Voltage: 100/120/220/240 VAC selectable
- Frequency: 50/60 Hz.
- Power consumption: 100 Watts (max)

Physical Characteristics

- 7" H x 16.5" W x 17" D (17.8 x 41.9 x 43.2 cm)
- Weight: approximately 34 lbs (15.5 kg)