EMCO

ECG Machine

iE 7101
Single Channel

- Accuracy and reliability in ECG interpretation
  - ECG analysis program, proven by
  - CSE/AHA/MIT database
  - 12-lead simultaneous acquisition
  - Complete digital filters and self-adapting filtering
  - Up to 300 seconds of rhythm analysis for easier arrhythmia locating
  - According to the latest Minnesota code

Streamlined workflow, new operating experience
- "One-touch" functional shortcut keys
- Onscreen operation guide to check the ECG procedure
- Voice reminder and visual alarming for lead-off, low battery and no paper
- Support general setting according to different situations for physicians and patients
- 3 report formats: simple report, median beat report and manual report

Data management solutions
- Massive local storage capacity up to 1500 files
- ECG management PC software (optional)

iE 7300
Three Channel

- About 1.3kg, light in weight
- 5.0-inch high resolution LCD screen
- Built-in rechargeable lithium battery for 4h continuous work
- Peripheral ports: USB, LAN port

Onscreen operation guide to check ECG procedure
## Technical Specifications

### Signal processing specification
- **ECG interpretation**: ECG analysis program for adults and pediatrics
- **Acquisition mode**: Simultaneous standard 12-lead acquisition
- **A/D conversion**: 24 bit
- **Sampling rate**: 1,000 samples/s
- **Dynamic range**: ± 9 mV
- **Resolution**: 0.3μV
- **Frequency response**: 0.05 Hz – 250 Hz
- **Common mode rejection**: >115 dB
- **Polarization voltage**: ± 550 mV
- **Input circuit**: Floating circuit input
- **Input impedance**: >2.5 MD
- **Input CIR current**: ≤0.1 μA
- **Patient leakage current**: <10 μA
- **Time constant**: ≥3.2 s
- **Noise level**: ≤12.5 μV / p-p
- **Sensitivity threshold**: ≥20 μV
- **Calibration voltage**: 1 mV±3 %
- **Sensitivity**: (0.625, 1.25, 2.5, 5, 10, 20, 40, 10/5, 20/10) mm/mV
- **Auto Gain Filter setting**: Low-pass filter: 25/35/75/100/150/250Hz
- **High-pass filter**: 0.01/0.02/0.05/0.35/0.5/0.8Hz
- **AC filter**: 50Hz, 60Hz
- **Heart rate range**: 30–300 bpm
- **Special acquisition functions**: Lead-off detection, lead overflow
- **Acquisition time**: 10–24 seconds

### Display and keyboard specifications
- **Display type**: 5 inch TFT LCD
- **Display resolution**: 800x480
- **Display data**: Waveforms, heart rate, clock, printing mode, filters, sensitivity, paper speed, system prompt, alarming messages, battery, power indicator, tone level
- **Waveform display mode**:
  1) Same screen display: 3’4, 3’4+1R, 6’2, 6’2+1R, 12’1
  2) Split-screen display: 3’4, 3’4+1R
- **Keyboard type**: Silicon quick-access function keys

### Report specifications
- **Report type**: waveforms, Simple report, MVB report (Medical beat report)

### Power supply
- **Power supply**: AC / battery operation
- **AC power supply**: 100 V-240V, 50/60 Hz
- **Battery power supply**: Rechargeable lithium battery
- **Battery capacity**: Supports about 3 hours for continuous operation
- **Battery charge time**: Approximately 4 hours from total discharge

### Dimensions
- **Length x width x height**: 281 mm x 191 mm x 50 mm

### Environment requirements
- **Transportation**: Environment temperature: -20 ~ +55 Deg.C
  Relative humidity: ≤85% (No condensation)
  Air pressure: 70 kPa ~ 105 kPa
- **Storage**: Environment temperature: -20 ~ +55 Deg.C
  Relative humidity: ≤85% (No condensation)
  Air pressure: 70 kPa ~ 105 kPa
- **Operation**: Environment temperature: +5 ~ +40 Deg.C
  Relative humidity: ≤85% (No condensation)
  Air pressure: 86 kPa ~ 105 kPa

### Model IE 7101 Specifications
- **Recording paper**: 50 mm, Roll paper
- **Record format**: 1’12, 1’12+1R
- **Weight**: 1.3 kg

### Model IE 7300 Specifications
- **Recording paper**: 80mm, Roll paper
- **Record format**: 3’4, 3’4+1R, 1’12, 1’12+1R, 3’2
- **Weight**: 1.5 kg

*Specifications subject to change without prior notice.*