



PRODUCT: eVOLUTION™

eCardio's eVolution™ device provides instant and accurate patient information through automated daily data transmissions. The single-component system delivers continuous, computerized daily monitoring and offers physicians the flexibility to remotely program the device to best meet the needs of their patients.

eCardio's eVolution™ system automatically transfers cardiac rhythm data to the eLAB, our 24-hour state-of-the-art monitoring center. The eVolution™ device offers:

- Computerized monitoring operated by a micro-processor auto-detecting algorithm exclusive to eCardio
- Real-time data analysis, allowing physicians to discover asymptomatic arrhythmias with speed and precision
- A single-component system, eliminating the cumbersome monitor, modem and base station combination, enhancing patient compliance
- Flexible technology, enabling physicians to remotely program the device while being worn by the patient

In addition to wireless transmission capability, the eVolution™ device offers patients the flexibility to manually record and transmit event data transtelephonically.

INDICATIONS FOR USE

The monitor is indicated for diagnostic evaluation of patients who experience transient symptoms such as palpitations or syncope. It is intended to record cardiac activity associated with these infrequent and transient symptoms. Once data is recorded, patients transmit the ECG data wirelessly or over a telephone line to a host PC for review by a licensed physician.

PRIVACY

The eVolution adheres to patient privacy standards and requirements for the electronic transmission of health information, as set forth by the Health Insurance Portability and Accountability Act of 1996 (HIPAA).

DEVICE SPECIFICATIONS

Functional

Wireless: 1 or 2 channels
Sample rate: 256 samples per second
User interface: LCD display and sound

Memory

Pre-set to record 6 events, and may store up to 30 minutes
Type: Flash
Data retention: non-volatile

Battery

Type: (1) 3.6V Lithium Thionyl Battery Pack

Wireless Transmission

Transmit carrier: 1900Hz
Carrier deviation: 100Hz/mV

Physical

Dimensions: 2.82"x 4.33" (5.16" w/antenna) x .90"
Weight with batteries: 5 oz.
Enclosure: Molded plastic
Operating position: Any orientation

Electrical

Input impedance: 2M min.
CMR ratio: 60dB
AC signal range: +/- 3mV
DC signal range: +/- 300mV
Resolution: 23µV (8bits)
Frequency response: .05Hz to 40Hz

