

CardioBelt™

ECG Acquisition System



Breakthrough Technology

The CardioBelt ECG Acquisition System is easy to use and provides the accuracy and reliability that physicians have come to expect from high-end devices. Combined with Monebo's patented algorithms, CardioBelt™ allows a patient to take their own ECG and wirelessly transmit the results to their health care provider. The ability to do this without the aid of a health care professional on-site opens up the opportunity for the home monitoring of heart patients using a critical and widely understood test, the ECG. This yields improved health care, convenience for the patient and more efficient healthcare delivery.

In operation, CardioBelt transmits ECG data to a local home appliance. During a call the appliance transfers the ECG data to a remote care provider's station where the data is displayed and measurements calculated. The software system may store the ECG data, generate reports, and allow retrieval of archived records.

Flexible Design

- Single patient elastic belt with Velcro closure assures electrode contact while providing patient comfort
- Reusable Cardiac Signal Processing Unit (CSPU) allows the home healthcare agency to redistribute to multiple patients

Easy to Use

- Self-centering electrodes positioned to obtain Standard Lead I ECG
- Dry electrodes require no patient preparation, shaving or gel
- Trained professionals not required at patient site
- One button operation
- Bluetooth wireless interface for total patient mobility
- Velcro attachment makes it easy for the patient to put on and take off
- Rechargeable internal battery provides 500 spot checks or ten hours of continuous use
- Tri-colored LED indicates unit status

Highly Accurate

- Utilizes Monebo's patented ECGAnalyzer™ software for display, measurement and interpretation.
- Designed for long-term accuracy and performance

Patient Involvement – As easy as 1, 2, 3

1. Place CardioBelt on chest and attach with Velcro
2. Position CSPU in the center of the chest
3. Push button to activate the unit

CardioBelt™ ECG Acquisition System

Technical Specifications

System Configuration

- Cardiac Signal Processing Unit
- Cardiac Signal Acquisition Belt
- Universal Battery Charger
- Instructions for Use



Cardiac Signal Processing Unit

- Rugged reusable unit
- ECG sample rate: 256 samples/second
- Bluetooth wireless interface, Class 2, 10 meter range
- Manual on/off switch
- Tri-color LED light for indicating power on and link established (green), establishing connection (yellow), and powering down (red).
- Internal rechargeable battery with approximately 10 hour of continuous operation
- Universal 100-240VAC 50/60 Hz to 5V, 1A charger

Cardiac Signal Acquisition Belt

- 50mm wide replaceable belt available in three sizes: Small, Medium, Large
- Three-point dry contact sensor configuration

System Component Approvals

- FCC Part 15
- FDA 510K
- CE Mark (pending)

Hardware Physical/Environment

- Operating temperature: +10° – 40° C ambient
- Operating humidity: 25% to 95% relative, non-condensing
- Storage temperature: -20° – 70° C ambient
- Storage humidity: 25% to 95% relative, non condensing

Warranty

- CSPU: 2-year parts and labor
- CSAB: 90-day parts and labor

Model Number	Description
CSPU/3.1	Cardiac Signal Processing Unit (incl. Adaptor/Charger)
CSAB/3.1S	Cardiac Signal Acquisition Belt <i>Size Small (Patient chest size 32"–39", 81–99cm)</i>
CSAB/3.1M	Cardiac Signal Acquisition Belt <i>Size Medium (Patient chest size 38"–46", 97–117cm)</i>
CSAB/3.1L	Cardiac Signal Acquisition Belt <i>Size Large (Patient chest size 45"–52", 114–132cm)</i>
CSPU/AC/3.1	Adaptor/Charger



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