Ashametrics, Inc.

LifeBand - Chest

Data Sheet v1.1

Ashametrics, Inc.

LIFEBAND – CHEST

The Lifeband chest strap is a wearable wireless physiology measurement device. The Lifeband is designed for to transmit data to a mobile phone via the Bluetooth protocol.

The Lifeband contains a washable strap and removable pocket, which holds the electronics.

Specifications:

- ECG heart monitor (12-bit resolution)
- Skin conductance (0.05 microseimens resolution)
- Three-axis accelerometer (10-bit resolution)
- Temperature sensor (+/- 1 degree C)
- Real-time clock with quartz crystal accuracy and phone autosync
- Data logger support with on-board 2 GB data storage
- Logged data can be downloaded wirelessly via Bluetooth
- Internal lithium-polymer battery
- Onboard indicator LED lights
- USB rechargable, via PC or AC adapter
- Two-way Bluetooth wireless communication
- Adjustable sampling rate
- IEEE802.15.4, RFID/NFC, and ANT communication are available as custom options

For further information, please contact: info@ashametrics.com

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LIFEBAND – GETTING STARTED

The LifeBand chest band is turned ON by pressing the tactile pushbutton located on the lower left side of the electronics pocket. (see photo)

Press the power button for half second to turn ON the sensor band. Press and hold the button for 10 seconds to turn OFF the sensor band.

If the battery is charged, you will see the red blinking light, indicating the band is operating and transmitting data.

The Lifeband should fit snugly on the rib cage just under the pectoral muscles. The tightness can be adjusted with the strap.

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LIFEBAND – CHARGING BATTERY

By pulling back the Velcro opening of the electronics pocket, the USB connector can be seen. (the small black device that can also be seen protruding from the electronics is the temperature sensor.)

A standard micro-USB cable can be used to charge the battery. When the battery is charging, a steady red glowing light will be seen. The light will turn off (or grow very dim) once the charge is complete. The charging time may vary, but should be approximately 2-3 hours.
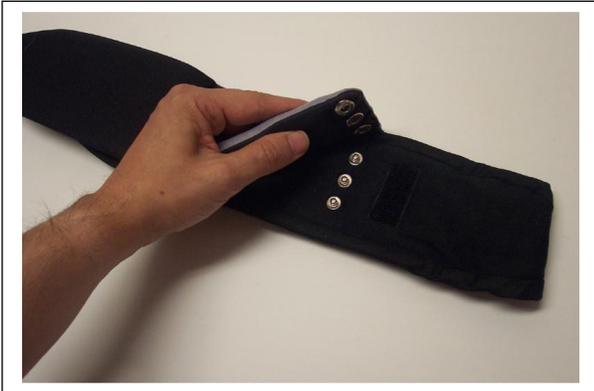
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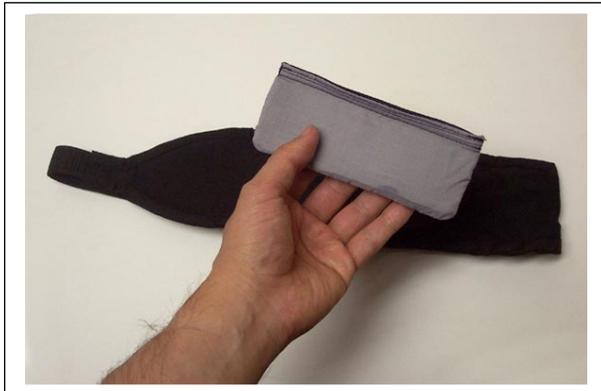
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LIFEBAND – MAINTENANCE

The electronics pocket can be removed from the sensor band by gently undoing the set of 4 snaps holding the pocket to the strap. In order to avoid ripping the fabric around the snap, it is useful to use both hands, and the fingernails from one of the hands can be used to gently separate the snaps.

With the electronics pocket removed, the Lifeband chest strap can be washed by hand in warm soapy water. Please do not machine wash.

There should be no need to open the electronics pocket other than to access the micro-USB and charge the battery.

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