

Exmobaby

User Manual

www.exmovere.com

Please read this manual thoroughly before using the product.



For Your Safety

Exmobaby has been created to give parents the piece of mind and increased security knowing they can confidently check on their baby and monitor it in real time even when they are away and not in the same room as their child.

Read these simple SAFETY guidelines. They are meant to give you and your baby the best user experience for both you. Please note that not following these Instructions could damage your Exmobaby system, or interfere with its use and its protective applications. Misuse could interfere with or violate your warranty and end your user license. In the worst case scenario, misuse could even make the unit potentially harmful.



INTERFERENCE

All wireless devices like cellular telephones are susceptible to interference. Interference can affect performance. For example, you should not use the Exmobaby while flying in an airplane as it could interfere with the use of the airplane or the Exmobaby signal.



SWITCH OFF NEAR LARGE, UNUSUAL STRONG VIBRATIONS

Follow any restrictions given to you by health and safety authorities at all times. Exmobaby is a sensor device that must be carefully handled. For example, turn off Exmobaby when explosives or blasting are in progress.

For Your Safety



QUALIFIED SERVICE

Only qualified and trained personnel may install or repair this product.



ACCESSORIES AND BATTERIES

Use only approved enhancements and batteries. Do not connect incompatible products to Exmobaby.



WATER-RESISTANCE

The pajama garment itself should be regularly cleaned and washed in water. When washing, make sure the sensors and electronics are not exposed to water. Exmobaby sensors and electronics are not water-proof. Only the pajama garment should be washed or submersed in water. Like any cell phone device make sure the electronics and sensors are not exposed to moisture.



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About Exmobaby

Exmobaby has been created to give parents the piece of mind and increased security of knowing they can confidently check on their baby and monitor it in real time even when not in the same room. The Exmobaby brand and products are part of Exmovere Wireless, LLC, a company based in Alexandria, Virginia (www.exmovere.com).

The Exmobaby apparel and sensor kit for infants are the first-ever baby garments developed for remote monitoring of heart rate, emotional state and behavior in babies. While you are away from your baby you can receive important messages and data about your baby.

Every unit included in each Exmobaby kit consists of fully washable baby clothing that connect to a Velcro conductive fiber strap, a heart shaped detachable transceiver that communicates the real time information about your baby to your smart phone; and provides software to process data thereby providing a record of your child's physical states to online care providers. The software means that parents can record physical states of your child such as hunger or tiredness. This allows care providers to predict likely causes of future events like when your child needs a nap or needs to be fed. With parent and caregiver input, the technology can learn over time and help predict baby's future emotional, physical and behavior states and needs.



Network Service

- Your Exmobaby system has provided to you unlocked. That means you will need to get your own SIM card. The right SIM card will operate on GSM/EDGE 850, 900, 1800 and 1900 MHz networks.

- To use Exmobaby, your SIM card must come with service from a wireless provider. Many of the features require special network features. Some networks may require that you make specific arrangements with your service provider before you can use the network services. Your service provider can give you instructions and explain what charges will apply. Some networks may have limitations that affect how you can use network services. For instance, some networks may not support all language-dependent characters and services.



Items Inside The Box

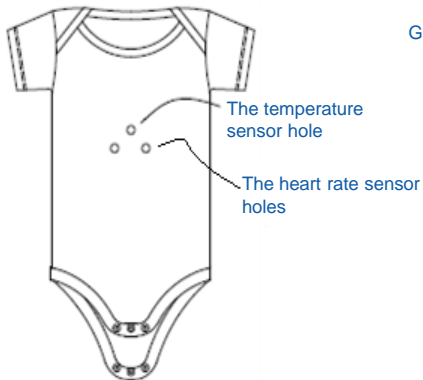
After opening the package, Please check the following components, if found which is incomplete or damaged, please contact your Exmobaby dealer or retailer.

- ✓ 4 garments in 4 different sizes
- ✓ Heart rate belt
- ✓ Power adapter
- ✓ USB cable
- ✓ Heart-shaped sensor
- ✓ GSM transmission base
- ✓ Antenna
- ✓ Display controller unit
- ✓ Warranty card
- ✓ User manual

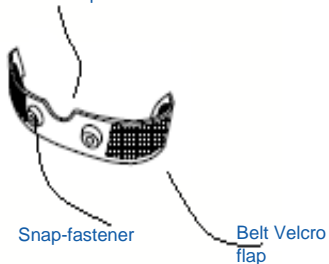


System Parts

1. Exmobaby Pajama



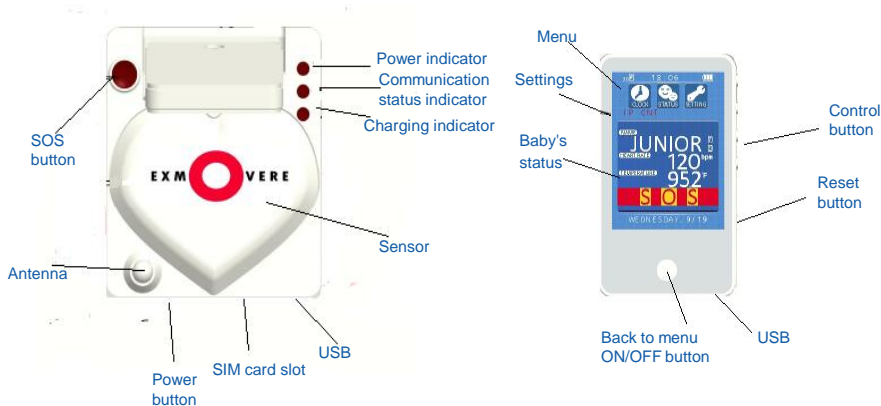
Groove (for the temperature sensor hole)





Description of the product

2. Transmission Base & Controller



Getting Started



1. Setting up the Exmobaby Base Station

1. Obtain a standard prepaid SIM card from your local carrier. Pull out the slot from the front of the base. Place the SIM card into the slot and then simply slide the slot back into the base with the SIM card already embedded in the slot. Please insert or remove the SIM card only when the base station is turned off.

2. Screw the antenna onto the base station.

3. Turning on: Press the "POWER" button continuously until the blue status light for power is on and the green status light for network signal starts to blink.

4. Turning off: Press the "POWER" button continuously until the blue status light for power is off and the green status light for network signal will also switch off at that point.





2. Placing the Heart Shaped Sensor on the Pajama

1. To attach the Heart Rate Belt, pull the pajama inside out. Next, attach the belt. There are Velcro ends on both sides. Simply attach the Velcro ends of the garment to the corresponding Velcro end of the belt. They will hold each other. Make sure to tuck each side of the belt into the cotton flaps to avoid baby skin irritation. The two buttons on the Heart Rate Belt should pop up outside of garment through the holes. Now turn the pajama back from the inside out position.
2. The Heart Shaped Sensor can then be snapped on to the exposed snap buttons on the front side of the pajama. The little infrared skin thermometer on the bottom of the Heart Shaped Sensor should be pointed at the baby's skin through the top hole on the pajama.
3. To turn on the Heart Shaped Sensor, press the button on the sensor until the red LED flashes twice. This light indicates that the sensor has been activated. To turn off the Heart Shaped Sensor, hold down this button for 7 seconds until the bright red LED flashes once. This indicates that Heart Shaped Sensor is turned off.

- Quick update on data: Press the Heart Shaped Sensor button for 4 seconds continuously. That action will update the latest temperature and heart rate data immediately.

Getting Started



3. Using the Display Controller

Control Key Description

1. Key “^”: The left shift or selection key. On the main menu, press the button once to enter the next menu. On the submenu, press the button once to shift left, press the button continuously to confirm the current selection,
2. Key “v”: The right shift key. On the submenu, press the button once to shift right, press this button continuously to move down the screen.
3. Key “+”: On the main menu, press the button to shift left. On the submenu, press the button to choose last selection.
4. Key “-”: On the main menu, press the button to shift right. On the submenu, press the button to choose next selection.
5. Key “Menu”: This selection will return you to the main menu, the switch key.



Display Screen

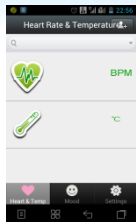
1. Information on display includes: Sensor battery power; Sensor signal strength; Status of the monitor battery power.
2. Settings window: These include the clock setting; the baby status setting; the systems parameter setting.
3. Data: The child's name, heart rate and body temperature.

Getting Started

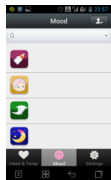


4. Using the Exmobaby Android App

You can use your android phone to download. With this App, you can set up Exmobaby on your cell phone which will be synchronized automatically with Exmobaby Display in a couple of minutes.

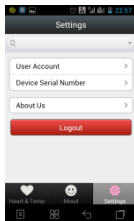


1. Baby heart rate and temperature display interface: Parents can view the baby's real-time heart rate and status on this interface on her smart phone.



2. Baby emotional state display interface: the user can enter this interface to view the baby's emotional state, SOS and other information on his smart phone.

3. Setting interface: Parents can set the relevant parameters she desires and set up authorized telephone service numbers she wants contacted by Exmobaby.



Attention: The initial SIM password must be input as "123456" when binding the IMEI.

How to use the product



1. Turn on/Turn off

1. Turn on/Turn off sensors

Press the "POWER" button on the sensor until the red LED flashes twice, indicating that the sensor is turned on, hold down this button for 7 seconds until the bright red LED flashes once indicates the sensor is turned off.



2. Turn on/Turn off Exmobaby base station

To turn on the station, press the "POWER" button continuously until the blue status light for power is on and the green status light for network signal starts to blink.

To turn off the station, press the "POWER" button continuously until the blue status light for power is off and the green status light for network signal will also switch off at that point.

How to use the product



3. Switch controller
Press the "MENU" button until the screen is light, the device is turned on, long press "MENU" button, the device is turned off.

2. SOS Alert Transmission

Press the "SOS" button until the back light for it is activated. The SOS button sends alerts to parent's cell phone and also activates beeps and a pop-up window featured in the Exmobaby Android App.

How to use the product



3. Charging

1. Sensors

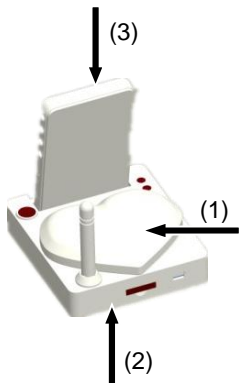
Remove the sensor from the belt. Snap the Heart Shaped Sensor on the Exmobaby Base Station, so that it can charge.

2. Exmobaby Base Station

Connect the base station to a wall outlet via USB cable and adapter, as provided.

3. Display Controller

Place the controller into the Exmobaby Base Station once it is plugged into the wall outlet, to ensure that it charges properly.



How to use the product

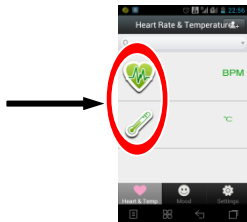


4. Check Heart Rate and Body Temperature



1. Mom can directly read the current infant heart rate and body temperature data on the date status bar of the display.

2. Open Android phone Exmoby App. Now parents can read baby heart rate and body temperature data. The temperature data can be set in either Celsius or Fahrenheit.



How to use the product



5. The Display Controller for Updating Baby Status

1. Please choose the desired language on the Display Controller menu by pressing the reset button. You can choose either Chinese or English.
2. Choose the current status of the baby. Then click "SAVE & SEND."
3. The Display Controller will show a "BABY DATA SENDING" message.
4. Display Controller will then show "PLS PUT BACK" to remind the user to put the device back in the Exmobaby Base Station, to enable GSM Network Access.
5. After the Exmobaby Base Station has successfully sent the data, the Display Controller will show an "OK" message.



Some Things You Need to Know



1. Charging your Exmobaby system: the Display Controller and Heart Shaped Sensor will automatically shut down once the battery runs out. When the Exmobaby is out of power, the bright red light on the base station will flash. The Exmobaby Base Station, Display Controller and Heart Shaped Sensor can be charged simultaneously. During charging, a red LED will be lit. Once the system batteries are charged, the red LED will be off.

2. Heart Rate Monitoring: The system relies on ECG to monitor heart rate. Please make sure the heart rate belt comes into direct contact with the baby's skin.

3. Temperature Monitoring: The system relies on an infrared skin thermometer to detect the baby's temperature. To function correctly, the infrared sensor must have access to a point on the baby's skin through the top hole on the Exmobaby pajama. Please note that placing the temperature sensor closer to your baby's skin may increase body temperature measurement data. Putting the sensors further away may decrease the reading. Make sure your Heart Shaped Sensor is firmly snapped onto the buttons of the Heart Rate Belt to ensure the correct distance.

Some Things You Need to Know



4. Infant heart rate: The average resting heart rate of infants between 0-12 months old is between 110 to 140 beats per minute. That reading can quickly change depending on the baby's activities.

5. Rebooting the System: Both the Display Controller and the Exmobaby Base Station have a restart button. If the system becomes unstable, please press the restart button to reboot the system.

6. Maintenance for Heart Rate Belt

The Exmobaby Heart rate Belt is a delicate, sensory product. Please maintain carefully. Do not machine wash, soak, dry clean with acid detergent or use alcohol for cleaning. You may use neutral warm water to hand wash. After washing, use a paper towel to dry it or air-dry it in a secure place, protected from rain. You may machine wash the Exmobaby pajama, as long as the Heart Rate Belt is not left inside of it.



Battery Information

❖ Your Heart Shaped Sensor, Display Controller and Exmobaby Base Station are powered by rechargeable batteries. The batteries can be charged and discharged hundreds of times, but they will eventually wear out. If your system requires more and more frequent charging, please contact the Exmovere customer support phone number at +1(703)227-7194. Generally, it is a good idea to unplug the charger from the wall outlet and the device when not in use.

Do not throw your Heart Shaped Sensor, Display Controller or Exmobaby Base Station into a fire as they contain elements that could become dangerous. Dispose of batteries according to local regulations. Please recycle when possible. Do not dispose of your Exmobaby as household waste like you should not to any battery usage device.

❖ In the event of a battery leak, do not allow the liquid to come in contact with the skin or eyes.

❖ In the event of such a leak, flush your skin or eyes immediately with water, or seek medical help.

Care and Maintenance



Exmobaby is a delicate sensor product of superior design and craftsmanship. It should be treated with care. The following suggestions will help you protect your warranty coverage.

- Keep the device dry. Precipitation, humidity, and all types of liquids or moisture can contain minerals that will eventually corrode electronic circuits. If your Display Controller, Heart Shaped Sensor or Exmobaby Base Station becomes wet, turn it off, and allow the device to dry completely before turning back on. You may machine wash the garment itself.
- Do not use or store the Exmobaby system in dusty, dirty areas. Its moving parts and electronic components can be infiltrated by dirt particles and damaged.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean this or any sensory device.
- Do not attempt to open the device other than as instructed in this guide.
- Do not paint the device. Paint particles can clog the moving parts and prevent proper operation.

Care and Maintenance



- Do not store the device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the device in cold areas. When the device returns to its normal temperature, moisture can form inside the device and damage electronic circuit boards.
- Do not drop, knock, or excessively shake the device. Rough handling can break internal circuit boards and fine mechanics.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the device and may violate government and/or communications industry regulations.
- Use chargers indoors only.

Only use Exmobaby for the Permitted Use herein. Do not use the Product diagnosis of infant health conditions. In the case of illness immediately seek professional medical advise.



Disposal



The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that in the European Union all electrical and electronic products, batteries, and accumulators must be taken to separate collection at the end of their working life. Do not dispose of these products as unsorted municipal waste.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

environment or human health from uncontrolled waste disposal and to promote the sustainable reuse of material resources. Collection information is available from the product retailer, local waste authorities, national producer responsibility organizations, or your local Exmovere representative. For more information, see product Eco-Declaration or country-specific information at www.exmovere.com.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.



Certification Information



Hereby, Exmovere declares that this Exmobaby product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



This device has been tested by China National Laboratory with a report to show the device works correctly and meet the request of customers.

Technical Specifications



① Heart shaped sensor

Operating voltage : 2.8~5.0V

Battery level : 80mAh

Quiescent current : 200~300 μ A

Wireless frequency : 433.92MHz

High frequency wireless transmission power : 1.5 \pm 0.5 dBm

Operating temperature range : - 20~ + 55 $^{\circ}$ C

② The remote monitor

Operating voltage : 3.0~5.0V

Battery level : 600mAh

Standby operating current : \leq 15mA

Wireless frequency : 433.92MHz

Wireless receiving sensitivity : overmatch - 105 dBm

Operating temperature range : - 20~ + 55 $^{\circ}$ C

③ Transmission base

Operating voltage: 3.0~5.0V

Battery level: 1000mAh

Standby operating current : \leq 3mA

Operating temperature range: - 20~ + 55 $^{\circ}$ C

Wireless communication 3G module: Huawei

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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