

# babysense™

## BABYSENSE CONNECT SAFE SLEEP INFANT BREATHING MONITOR

### User Manual



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*ISO 13485*

*ISO 9001*



US Patent

No. 5271412



0459



# BABYSENSE CONNECT

## SAFE SLEEP INFANT

## BREATHING MONITOR

### Warnings

**Ensure you read this user manual before installing and using the product.**

**Babysense is a high quality, high sensitivity electronic device, which must be handled with care:**

- **Do not handle roughly, drop or throw.**
- **Follow the installation instruction carefully to ensure the device is installed securely and correctly.**
- **Babysense is not a toy. Do not allow children of any age to play with it.**
- **Do not put any additional baby or pet in the bed.**
- **Babysense Connect is intended for use with one infant and cannot be used for two infants in one bed.**
- **Babysense Connect cannot be used with co-sleepers that are attached to the parent's/caregiver's bed.**
- **Do not operate the unit in the presence of electromagnetic interference.**
- **Portable and mobile RF communications equipment may effect operation of this device.**
- **You must undertake the performance test daily and every time you move the monitor, change bedding or relocate crib/bed position (Daily Performance Test Section).**
- **Do not operate vaporizer or ventilator directly towards the bed.**
- **To avoid possible danger from sensor cords, ensure that excess cords are pulled back under the mattress, secured with the included cable tie and are not visible or reachable.**
- **Install 4 new and identical Alkaline size AA 1.5 volt batteries. DO NOT use rechargeable batteries.**
- **IMPORTANT: It is strongly advised that parents and caregivers learn how to give first aid.**
- **Please remove batteries if the device is not in use for an extended time (2 weeks or more).**
- **If you have any problems with this device, such as setting up, maintaining or using, please contact the manufacturer's service personnel. Also, please report to the manufacturer if any unexpected operation or events occur.**
- **Do not use the equipment if you notice a change in the system's performance, if the system is damaged, or if any of its components are worn or frayed.**
- **The equipment should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the equipment should be observed to verify normal operation in the configuration in which it is used.**
- **Use only Babysense Connect sensor pads. Using different manufacturer sensors may damage Babysense's control unit and harm its performances.**

### Please note

**Babysense monitors and alerts, but cannot prevent any type of distress. The responsibility for applying first aid rests on caretakers. The Babysense senses breathing movements and motion only, and cannot monitor other occurrences. The purpose of the device is to alert when stopping or slowing of breathing and movement occur.**

**Babysense is a unique safety system which has helped save infants, giving parents (or caregivers) assurance, by enabling intervention in the event of irregular breathing movement or distress, before it becomes critical.**

**There are a number of cautionary steps, which are internationally recommended for SAFE SLEEPING:**

- **Always lay baby to sleep on his or her back.**
- **Refrain from smoking near or around baby.**
- **Avoid over-heating of baby's surrounding.**
- **Do not leave any objects near your baby that can cause suffocation.**

**Babysense Connect is an addition to these precautions.**

**Babysense Connect is a home movement monitor for infants up to one year of age, and is not to be used with high-risk infants requiring constant medical supervision.**

**Medically trained staff such as nurses, or non-medically trained users such as parents or caregivers may use the Babysense Connect.**

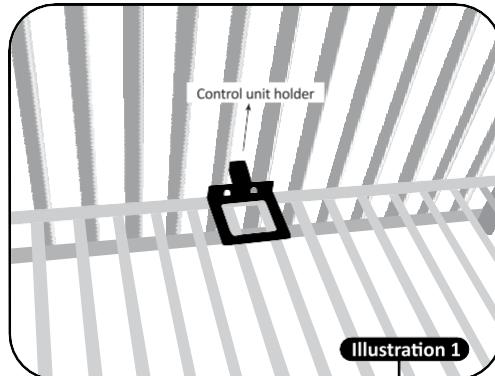
**Babysense Connect is intended for home use.**

### Principle of Operation

**Babysense continually detects baby's motion and breathing movements and will set off a sound and visual alarm if movement stops within 20 seconds or if the breathing rate slows to below 10 breaths per minute per minute. The system's non-touch, under the mattress sensor pads monitor baby's movement without restraining him.**

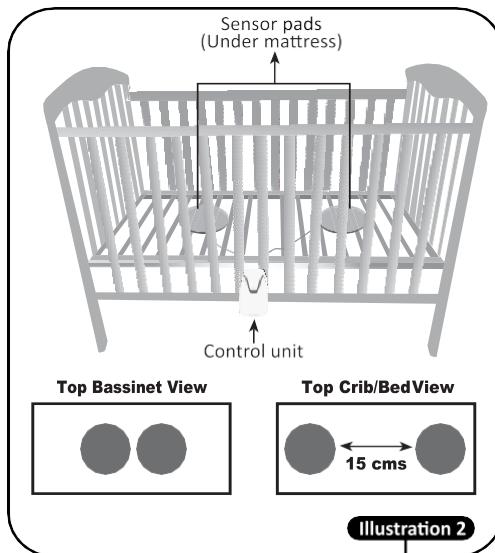
## Installation

1. To insert the batteries, remove the battery cover by placing your thumb/finger in the opening recess and gently pulling away from the control unit (see illustration 7). Insert, in accordance with the markings, 4 new and identical Alkaline size AA 1.5 volt batteries and close cover.  
Note: Please dispose of used batteries in accordance with local waste regulations.  
Note: Once batteries are inserted the Blue LED will flash 3 times indicating that BLE is activated. If the Red LED flashes 3 times it indicates an internal system error (please contact the manufacturer at support@babysensemonitors.com).
2. Place control unit holder on the base of the crib or bed and in between two bars as shown in illustration 1.

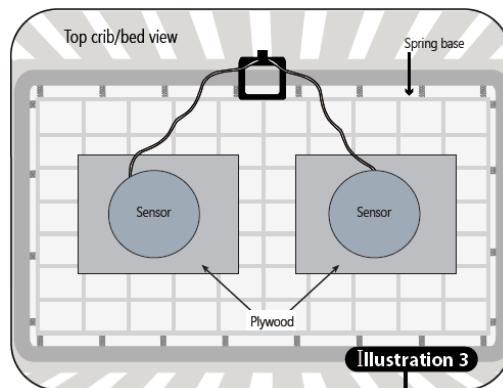


3. Sensor pad installation:
  - In a crib/bed the 2 sensor pads need to be placed 15cms apart from each other. Locate the center of the crib and place each sensor pad 7.5cms away from the center
  - In a bassinet the sensor pads should be placed side-by-side  
See illustration 2

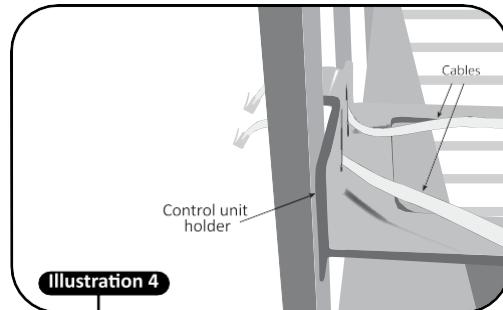
PLEASE NOTE: The sensors should be placed with the marking "THIS SIDE UP" facing up.



4. If the mattress cannot be in contact with the sensor pads, or when using a crib/bed equipped with spring base, soft base or padded base, place extra wooden board (plywood) under each sensor pad, as shown in illustration 3. The recommended size of the board is at least 17" x 11" and 1/2" thick.

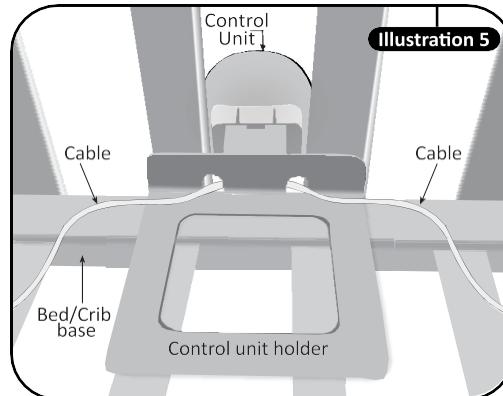


5. Pass the cords of the sensor pads through special openings in the holder (see illustration 4).

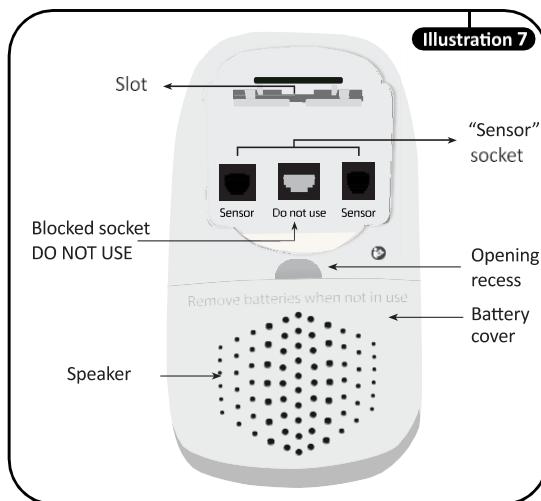
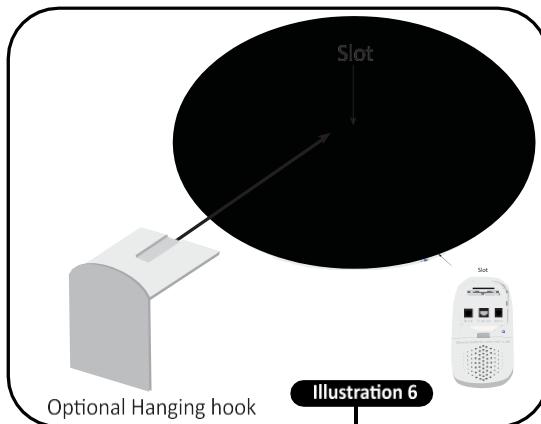


6. Attach sensor pad connectors to the outlets marked "SENSOR" on the back of control unit (see illustration 5 and 6).

PLEASE NOTE: Do not attach any cable to the blocked socket, marked "DO NOT USE" (see illustration 7)

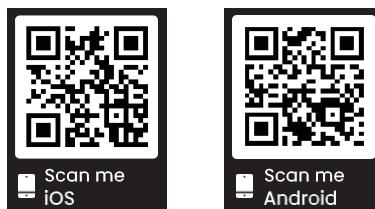


7. Should the design of the crib not allow proper installation with the control unit holder, please use the supplied hanging hook (see illustration 6). Hang the control unit from the bottom edge of the crib or affix the hook with a screw (not supplied) to the bottom edge of the crib and hang the control unit from the bottom edge of the crib.



8. Press control unit holder or hanging hook firmly and fully into slot in back of control unit (see illustrations 5, 6 and 7).
9. Place mattress securely on top of sensor pads, ensuring connection between the mattress and sensor pads is established.
10. Please scan appropriate QR code (see QR Codes below) for your cellular device. Pair the Babysense Connect Control Unit as per App instructions. You may also download the app by selecting “Babysense App” in the App Store

Note: The Babysense Connect comes with BLE Activated.

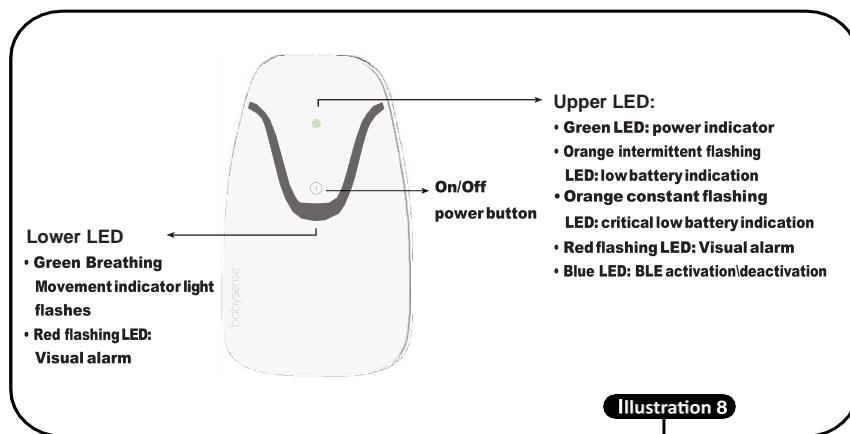


**IMPORTANT: To avoid possible danger from sensor cords, ensure that excess cords are pulled back under the mattress, secured with the included cable tie and are not visible or reachable**

## Layout of Control Unit

See illustration 8 for layout of control unit featuring:

- **ON/OFF Power Button**
- **Green LED:** power indicator
- **Red flashing LED:** visual alarm
- **Green Breathing Movement indicator light**
- **Orange intermittent flashing LED:** low battery indication
- **Orange constant flashing LED:** critically low battery indication
- **Blue LED:** BLE activation/deactivation



## Operation

**WARNING:** Please note that the green LED (power indicator) is not an indicator for breathing movements of the baby. It only indicates that the Babysense Connect monitor is ON. When breathing and movement are sensed, the green breathing movement LED light flashes.

**Babysense is ready for operation and use once the installation is completed. To operate, follow the below instructions:**

- Place your baby in crib/bed.
- Turn control unit on by pressing ON/OFF button.
- Make sure Green Power Indicator LED is illuminated briefly.
- When breathing and movement are sensed, the green breathing movement indicator light flashes. **NOTE:** This is not an indication of the baby's breathing movement rate but that breathing and movement are being sensed.
- Acoustic and visual red alarm light are activated if the baby's breathing stops or slows significantly.
- If Orange LED light flashes in 5 second intervals and Green Power LED is on (low-battery warning), replace all batteries as soon as possible. If the Orange LED constantly flashes with no Green Power LED, all batteries must be replaced immediately.
- Turn off control unit by pressing ON/OFF Power Button before taking your baby out of the crib / bed. Make sure the Green LED is off and no other lights are seen thereafter, to indicate the device is turned off.

**Note:** Ensure that the auditory alarm can be heard in all locations throughout the home or place of care and that the Babysense Connect Control Unit is hung with the LEDs facing out so that they are easily visible.

## Testing Operation

**Babysense Connect** is a highly sensitive device, which monitors a baby's breathing movements through the mattress during sleep. There are two main causes of malfunction - technical malfunctions and malfunctions due to environmental factors.

### Technical Malfunction

In order to minimize technical problems, follow installation and operation instructions carefully.

### Environmentally Caused Malfunction

Due to the high sensitivity of Babysense Connect, fans, wind, air-conditioning, and other similar environmental devices can influence it. Such environmental factors could be picked up by the sensors on a similar level to that of slight breathing movements, thus preventing or delaying alarm activation. If the Babysense Connect is concurrently used with other devices, it is required to conduct the Daily Performance Test (see Daily Performance Test Section) under an environment identical to the actual situation and while all concurrently used devices are "ON". Under such conditions, it is required to verify that the acoustic and visual alarms of Babysense Connect are activated

### Daily Performance Test

Do not conduct performance test by picking the baby up out of the crib/bed and waiting for the alarm to sound

- The performance test should be conducted while the baby is not in the crib / bed.
- Turn device on and take two steps away from bed.
- Ensure that alarm goes off within 20 seconds (due to absence of breathing movement).
- The alarm may sound with or without preliminary ticking.
- Check that alarm can be heard in all locations throughout the home or place of care. Please ensure that the Babysense Connect Control Unit is hung with the LEDs facing out so that they are easily visible.
- In case the alarm does not sound within 20 seconds refer to the "Troubleshooting Guide" section.
- The Daily Performance Test must be conducted daily and every time you move the monitor, change bedding or relocate crib/bed position.
- If using the Babysense App, please follow the daily performance test process as per App instructions.

### False Alarms

Isolated cases of false alarms are possible. Should one occur, check to see if caused by faulty connection of sensor pads to the control unit or if there is no direct connection between the mattress and sensor pads. In case of false alarms, kindly refer to the "Troubleshooting Guide" section. If the problem cannot be solved, please contact the manufacturer's service personnel.

## In the event of alarm

Should the alarm activate act immediately and:

1. Approach the crib/bed and check to see if the baby is breathing.
2. If your baby is not breathing or does not seem right, apply relevant first aid and seek medical assistance immediately.
3. If your baby is breathing, consult with a medical practitioner to ensure there is no cause for concern

## Symbol Guide

No.	Symbol	Description	No.	Symbol	Description
1.		<b>Serial Number</b>	7.		<b>Read instructions before using</b>
2.		<b>Date of Manufacture</b>	8.		<b>Authorized representative in the EU community</b>
3.		<b>Manufacturer</b>	9.		<b>Keep dry</b>
4.		<b>Dispose according to your local regulations</b>	10.		<b>Temperature limitation</b>
5.	<b>IP21</b>	<b>Protected against vertical falling water drops</b>	11.		<b>Humidity limitation</b>
6.		<b>Type BF applied part</b>	12.		<b>Atmospheric pressure limitation</b>

## Troubleshooting Guide

Symptom	Possible Cause	Solution
Green Power Indicator LED on Control Unit doesn't illuminate when turned ON	<ul style="list-style-type: none"> <li>Batteries are not inserted correctly or may be low or flat.</li> </ul>	<ul style="list-style-type: none"> <li>Check batteries are inserted in the Control Unit observing the correct polarity.</li> <li>Control Unit requires 4 X AA 1.5V Alkaline batteries (not supplied). Please do not use rechargeable batteries.</li> </ul>
Low battery Orange LED on the Control Unit	<ul style="list-style-type: none"> <li>Batteries low.</li> </ul>	<ul style="list-style-type: none"> <li>If Orange LED light flashes at 5 second intervals alternating with the Green Power Indicator LED, replace all batteries as soon as possible</li> <li>If solid Orange LED flashes consistently with no Green Power Indicator LED all batteries must be replaced immediately</li> </ul>
False alarm up to 30 seconds from activating	<ul style="list-style-type: none"> <li>Sensor pad is out of order.</li> <li>Cable is connected to monitor's blocked socket.</li> </ul>	<ul style="list-style-type: none"> <li>Connect one sensor pad and lay the baby on the bed for 1 minute. If the alarm does not activate, the sensor pad is in order. If the alarm activates, disconnect and place the sensor pad aside.</li> <li>Connect the other sensor pad and repeat steps above.</li> <li>Do not connect any cables to the blocked socket (only connect to "SENSOR" socket).</li> </ul>
False alarm after 30 seconds from activating	<ul style="list-style-type: none"> <li>The mattress is not touching the sensor pads.</li> </ul>	<ul style="list-style-type: none"> <li>Make sure that the mattress and the sensor pads are touching. If necessary, to ensure a firmer connection add plywood under the sensor pads.</li> </ul>
	<ul style="list-style-type: none"> <li>The mattress is raised due to an object obstructing the connection between the sensor pads and mattress.</li> </ul>	<ul style="list-style-type: none"> <li>Make sure that there are no objects next to the sensor pads or between the sensor pads and mattress.</li> </ul>
	<ul style="list-style-type: none"> <li>The mattress does not enable transfer of baby movements (a rigid mattress, a mattress with springs or a mattress with air pockets).</li> <li>Soft or spring bed/crib base.</li> </ul>	<ul style="list-style-type: none"> <li>Place extra plywood under the sensor pad so that the sensor pad and the mattress will be tightly pressed together.</li> </ul>
No alarm due to Incorrect testing of the monitor by taking baby out of the bed to test for alarm activation	<ul style="list-style-type: none"> <li>Performance test used is incorrect.</li> </ul>	<ul style="list-style-type: none"> <li>Taking your baby out of the crib/bed and waiting for the alarm to activate will not properly test the natural operation of the Babysense Connect.</li> <li>Please review the "Daily Performance Test" Section to properly test that your device is functioning correctly.</li> </ul>

Symptom	Possible Cause	Solution
The alarm does not go off within 20 seconds when performing the Daily Performance Test	<ul style="list-style-type: none"> <li>Environmental influences detected by the sensor pads, such as wind, fan, air conditioner, baby mobile toy, vibrations.</li> </ul>	<ul style="list-style-type: none"> <li>Perform a test which will detect the source of the movement that the device detects. For example, sources of wind such as: air conditioner, an open window or a fan; movements of a baby mobile toy (which can vibrate even if it is not turned on) or walking around the bed area. Solutions: Eliminate sources of wind, remove the mobile toy etc. After neutralizing all environmental influences, perform the test again. If even after neutralizing all of the environmental influences, the alarm does not go off within 20 seconds, perform the following:</li> </ul> <ol style="list-style-type: none"> <li><b>Test the control unit:</b> <ul style="list-style-type: none"> <li>Disconnect all cables from the control unit.</li> <li>Turn control unit on (with no cables attached).</li> <li>Alarm activation within 20 seconds indicates that the unit is OK – proceed to the next steps.</li> <li>If the alarm does not sound within 20 seconds, stop using the device and contact your local distributor.</li> </ul> </li> <li><b>Test each sensor pad separately:</b> <ul style="list-style-type: none"> <li>Connect one sensor pad to either of the “SENSOR” sockets on control unit.</li> <li>Turn control unit on and take two steps back from the bed.</li> <li>Alarm activation within 20 seconds indicates that the sensor is OK – perform the above procedures with the second sensor pad.</li> <li>If the alarm does not sound within 20 seconds, place the sensor pad aside.</li> </ul> </li> </ol> <p><b>Note:</b> If one or both sensors pads are not working correctly stop using the device and contact your local distributor for further guidance.</p>
Application does not connect to Babysense Connect Control Unit	1. BLE is not activated on the cellular device.	1. When App was installed approval was not given to the application to use your Location. Please go back and approve. Activate BLE on cellular device and re-pair with application
	2. BLE is deactivated on Babysense Connect Control Unit.	2. Remove the batteries and re-insert them. Turn the Control Unit over and you will see one of the following: <ul style="list-style-type: none"> <li>Blue LED flashing 3 times indicating BLE is activated.</li> <li>Green LED flashing 3 times indicating BLE is deactivated, but the Babysense Unit is operational. Press and hold ON/OFF Button for 10 seconds to activate BLE, the Blue LED will flash for 3 times to confirm BLE activation.</li> </ul>

## Technical Specifications

- Powered by 4 size AA, 1.5 volt batteries. Power consumption approx. 3.3mA.
- Battery life approximately 2-4 months using Alkaline batteries. Do not use rechargeable batteries.
- Alarm volume typically 85dB SPL at distance of one meter
- The diameter size of the sensor pad is 216mm
- Babysense Connect has a service life of 3 years from date of purchase

## Conditions of Operation & Storage

**Conditions of operation are as follows:**

- **Temperature:** 0 °C to 40 °C
- **Relative humidity:** 20 %RH to 80 %RH
- **Atmospheric pressure:** up to 55kPa

**Conditions of storage between uses are as follows:**

- **Temperature:** 0 °C to 40 °C
- **Relative humidity:** 5 %RH to 95 %RH
- **Atmospheric pressure:** up to 55kPa

## Contents

- **Control Unit**
- **Control Unit Holder**
- **Optional Hanging Hook**
- **2 Sensor pads**
- **2 Cable Ties** (tied around the sensor cables when supplied)
- **User Manual**

**Please note that the batteries are not supplied.**

## Cleaning and Disposal

**As necessary, the device (sensor pads and control unit) may be wiped with a damp cloth.**

**The device and accessories are to be disposed of according to local regulations after their service lives. Alternatively, they can be returned to the dealer or the manufacturer for recycling or proper disposal.**

## Caring for your Babysense Connect

**Babysense Connect requires no special treatment beyond replacing batteries when the battery indication LED flashes Orange. The sensor pads and control unit may be wiped with a damp cloth. Batteries should be removed, and device stored in a dry shaded place when not in use.**

## Limited Warranty

**THIS LIMITED WARRANTY CONTAINS IMPORTANT INFORMATION ABOUT YOUR RIGHTS AND OBLIGATIONS, AS WELL AS LIMITATIONS AND EXCLUSIONS THAT MAY APPLY TO YOU.**

**This product will be free from defects in material and workmanship for a period of 2-years from the date of purchase following the original retail purchase, (the "Warranty Period").**

**If the Product fails to conform to this Limited Warranty during the Warranty Period, your local distributor or Hisense Ltd. will at its sole discretion, either (a) repair or replace any defective product at no cost, or (b) accept the return of the product and refund the money actually paid by the original purchaser for the product. Any Product that has either been repaired or replaced under this Limited Warranty will be covered by the terms of this Limited Warranty for the remaining Warranty Period.**

**This Limited Warranty does not apply to product that has been damaged as a result of improper maintenance or other misuse. This Limited Warranty is automatically void if the purchaser repairs or modifies the product in any way. Your local distributor or Hisense Ltd. will not be liable in any way for any damage, including incidental or consequential damage, caused by such repaired or modified product.**

**WARRANTY CLAIMS. If you wish to make a claim under this warranty, please contact your local distributor or Hisense Ltd. customer service at: [support@babysensemonitors.com](mailto:support@babysensemonitors.com)**

**DISCLAIMER OF WARRANTIES. EXCEPT AS STATED ABOVE, AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, HISENSE DISCLAIMS ALL EXPRESS, IMPLIED, AND STATUTORY WARRANTIES AND CONDITIONS WITH RESPECT TO THE PRODUCT. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, HISENSE ALSO LIMITS THE DURATION OF ANY APPLICABLE IMPLIED WARRANTIES OR CONDITIONS TO THE DURATION OF THIS LIMITED WARRANTY.**





FCC-ID:2AZL5-CU100-2F

#### FCC regulatory information

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.

**FCC Radiation Exposure Statement:** These equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. These equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

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

**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.**

It is recommended to replace sensor pads two years after their first use. Use only Babysense Connect sensor pads.

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For all product related questions kindly contact your nearest distributor, which can be found at [www.hisense.co.il](http://www.hisense.co.il)  
Other phenomena, symptoms, malfunctions—if you cannot find and solve the problem, please contact us at [support@babysensemonitors.com](mailto:support@babysensemonitors.com)