

*iBabyGuard*TM *Infant Snooze*

User Manual

(for use with iPhone/iPad)



IMPORTANT INFORMATION - PLEASE READ FIRST BEFORE USE

The iBabyGuardTM Infant Snooze consists of a wireless Breath Movement monitoring mat (model IBG iSnooze 5M) which works with an Apps on iPhone/ iPad for remote control.

The iPhone/ iPad OS Version has to be minimum iOS5 in order to be used with the Infant Snooze Apps.

All the music file formats supported by iTune will be supported by the music stream function of the Infant Snooze Apps.

Baby weight limit on the mat for effective monitoring should fall within the range below:

Avoid placing any cloth material between the baby and the Infant Snooze. When cloth material is placed on the mat, thickness of the material should be less than 3mm. Recommended materials are cotton bed sheet, cotton bath towel or swaddling cloth. Other unknown materials may compromise the sensitivity.

To ensure alert and mandatory alarm notifications are audible when using the Apps, please do the following:

- Ensure your iPhone/iPad is set to audible volume for sound and vibration-enabled.
- Ensure notification setting on your iPhone/iPad is enabled
 - o Go to Settings -> Notifications -> Infant Snooze Apps -> Notification
 - Under Notification Center -> select ON

WHEN RECEIVING OR MAKING A CALL ON YOUR SMART PHONE, ALL ALARM & REMINDER FUNCTIONS MAY BE DE-ACTIVATED. PLEASE PHYSICALLY CHECK ON YOUR BABY DURING CALLS.

Warning and disclaimer

- The iBabyGuardTM Infant Snooze is NOT a medical device or a diagnostic device to prevent Sudden Infant Death Syndrome (SIDS) or 'cot death'. Babies with a known predisposition to any breathing abnormality including apnea, obstructive sleep apnea should be monitored by a doctor. Please seek advice from doctors or health care professionals for medical diagnosis or when unsure of any symptoms.
- **iBabyGuard** Infant Snooze is NOT a substitute for proper adult supervision. It is important that an adult stays within range of the Infant Snooze at all times during use.

This **iBabyGuard**TM **Infant Snooze** is constructed with highly sensitive fiber optics technology. To ensure accuracy and durability, please observe the following care and maintenance instructions.

Care and maintenance of the mat



NO JUMPING/STAMPING/SITTING



NO SHARP HITS



NO HEAVY WEIGHT BEYOND LIMIT



NO BENDING



NO HOLDING OF THE



NO IMMERSING IN WATER

- EDGE IN ONE HAND
- It is advisable to use the Infant Snooze for sleeping purpose and should not be used as a play mat.
- Avoid major movement activity around the Infant Snooze as it is highly sensitive and may pick up the
 movement signal as part of the movement signal of the baby. Patting action, high vibration or motorrunning activities will affect the accuracy of the baby movement count.
- **DO NOT** add thick and heavy items such as mattress between your baby and the Infant Snooze.
- Any form of spillage or stain should be wiped off immediately with water on a damp cloth to prevent permanent stain on the Infant Snooze. Avoid using strong detergent. Gentle wipe is sufficient to clean up stains. Excessive scrubbing action may damage the water-resistance property of the Infant Snooze.
- Observe polarity of the battery placement for proper functioning of the Infant Snooze.
- **DO NOT** disassemble, crush, short-circuit or incinerate the battery as it may cause fire, injury, burns or other hazards.
- The operating temperature range for the Infant Snooze is from 10°C 40°C. **DO NOT** operate beyond this range as it may not function according to defined specifications.

Disposal instructions

Do not dispose of the Infant Snooze with unsorted waste. Improper disposal may be harmful to the environment and human health. Please refer to your local waste authority for information on return and collection systems in your area.

Infant Snooze Apps status Indication Summary

Your Baby Matters

Status indication	Event	Remarks
	Calibration in progress	The display will indicate an hour glass rotating in a circular motion
	Sleeping	The display will be as shown when baby is sleeping soundly.
	Movement / Wake up alert	The display will be as shown whenever the baby moves. After the baby falls asleep, wake up alert is activated when baby's sound/cry and continuous movement is detected from the Infant Snooze
	No breath movement detected alarm	The display will be as shown and alarm will be activated when no breath movement is detected
	Absence from mat alert	The display will be as shown and alarm will be activated whenever the baby is not on the Infant Snooze
	Error 1: Fiber sensor is broken	Please contact your service centre
	Error 8: High pressure exerted / Weight limit exceeded	High pressure, such as heavy weight on the Infant Snooze or the baby sitting up. The alarm will also be activated.



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Your Baby Matters

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1. GETTING STARTED

Package contents

Your iBabyGuard[™] Infant Snooze package includes:

- Infant Snooze
- Quick Start Guide

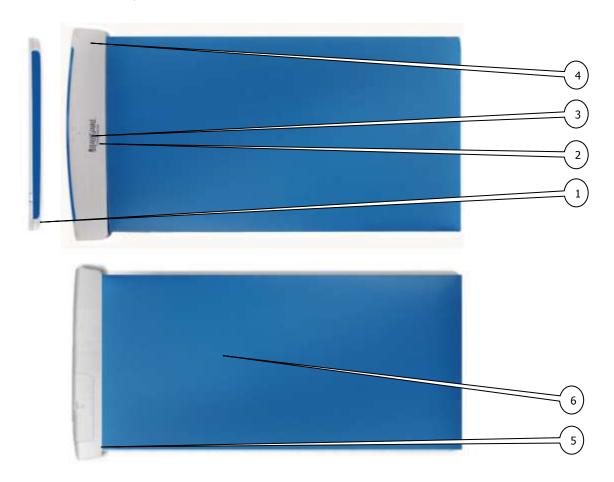
Before you can use the Infant Snooze, you need the following (not included in the product):

- 4 X AA dry cell battery for the Infant Snooze

For best performance, Lithium dry cell battery is recommended.



1.1 Parts description for the iBabyGuard Infant Snooze (Model IBG iSnooze 5M)



1	POWER button	Turn the Infant Snooze ON or OFF
2	LED indicator	Mat operation status indication
3	Microphone	Pick up audio sound from the Infant Snooze
4	Speaker	Output lullaby music stream from iPhone/ iPad
5	Battery compartment of mat	Uses 4 x AA dry cell batteries for the Infant Snooze (Batteries not included)
6	Infant Snooze	To support monitoring of baby

1.2 Setting up the mat with the iPhone/ iPad Apps

Insertion of battery to the iBabyGuard[™] Infant Snooze

Flip the Infant Snooze over to the bottom side. Unscrew the battery cover and insert the 4 x AA batteries inside the battery compartment. Cover back the battery cover as shown by the arrow.



Power on the iBabyGuard Infant Snooze

Place the Infant Snooze on the cot, mattress or any flat surface.

Put your baby on the Infant Snooze.

Press the power button at the tip of Infant Snooze frame as shown. A power on tone will sound and the LED indicator on the top of the mat will light up.



HINT:

Check the mat LED indicator. It will light up alternating between green and red colour during initial pairing mode, will show green colour once connection is established with the iPhone/ iPad Apps.



Power on the iPhone/ iPad Apps

For first time use,

 Download the Infant Snooze Apps from the App Store.

Go to Settings -> General -> Bluetooth -> select ON

Under Devices, tap on the Bluetooth device name for the **Infant Snooze Apps** to pair and connect with the Infant Snooze (while Infant Snooze is still in pairing mode such that LED is blinking red & green).

Bluetooth device name for the Infant Snooze:iSnoozeXX

Tap on the Infant Snooze Apps icon.

The Apps will establish communication with the Infant Snooze automatically.

Once connected, the current baby status will be displayed on the Home screen as shown.



HINT:

To ensure the alarm notification is enabled when the Apps is shifted to the background, do the following:

- Go to Settings -> Notifications -> Infant Snooze Apps -> Notification
- Under Notification Center -> select ON



1.3 Settings on the iPhone/iPad Apps

There are numerous settings available on the "Setting" tab of the iPhone/ iPad App for volume and sensitivity control on the Infant Snooze, feeding reminders, as well as enabling a factory reset. Below is a summary table for the settings and its setting operations are detailed below.

Setting	Function
Alert	Enable / Disable alert notification for non-mandatory alarms
Alert enable	
Infant Snooze Control	Set Infant Snooze volume and sensitivity
 Infant Snooze volume 	
 Infant Snooze sensitivity 	
Feeding Reminder	Schedule reminders for feeding baby
Enable	
Interval	
General	Set the unit for ambient temperature display,
Temperature Unit	Reset settings to factory default and check apps version
Factory Reset	
• Version	

Alert enable

The alert enable function is a single control function which activates BOTH the baby wake up and absence detection.

To enable the alert function,

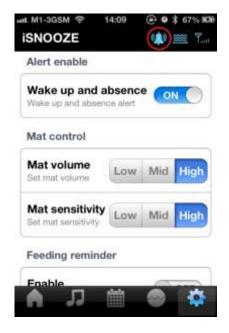
• Tap to "ON" as shown.

To disable the alert function,

• Tap to "OFF"

When enabled, the alert enable icon is indicated on the top of the LCD screen as shown (highlighted in red).

Note: Please refer to section 4.2 and 4.3 for more details on the Wake up and Absence alert notification functions respectively.



WARNING:

Alert will be disabled during music / lullaby stream to prevent false alert due to sound. It is advisable NOT to disable alarm when your baby is unwell or need extra attention.

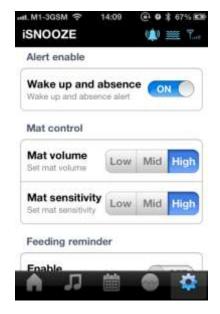


Infant Snooze volume

There are 3 volume levels to select for the music stream and transmitting audio sound from the Infant Snooze.

- High
- Mid
- Low

Tap the preferred volume level to activate it.



WARNING:

Volume is fixed for the mandatory No Breath movement alarm on the Infant Snooze and cannot be adjusted. Refer to section 4.1 for details.

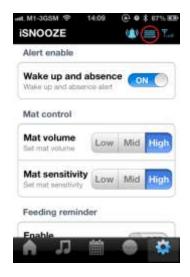
Infant Snooze sensitivity

There are 3 sensitivity levels.

- High (Default)
- Mid
- Low

Tap the preferred sensitivity level to adjust it.

The number of wave lines representation for the selected sensitivity level is indicated on the top of the LCD screen as shown (highlighted in red).



HINT:

When baby is moving extensively and the display does NOT show strong movement, set higher sensitivity. Set lower sensitivity when baby is sleeping soundly and the display shows strong movement.



Feeding reminder

To enable feeding reminder,

- Tap to "ON" as shown
- Tap to select time interval (by hour)

The feeding reminder activation icon is indicated on the top of the LCD screen as shown (highlighted in red).



Temperature unit

There are 2 units for selection to display for the ambient temperature, namely °C (Celsius) or °F (Fahrenheit).

Tap the commonly used unit for your location.





Factory Reset

Current settings can be reset to factory default settings by tapping on "Factory Reset".

Below are the factory default settings

iPhone/ iPad:

Wake up & Absence alert: disable

Feeding reminder: Off

Infant Snooze:

Mat volume: High Mat sensitivity: High Wake up alert: disable

Activity log: All logged data on the Infant Snooze will

be erased



WARNING:

Existing recorded baby data stored on the iPhone/ iPad will be erased during factory reset.

Version

The current version of the Apps is indicated in the Settings tab under "General".





2. KEY FEATURES OF iPhone/ iPad APPS

2.1 Baby activity monitor

The various iconic representations of the baby activity status are display according to the current baby activity status.

To view the current baby activity status, tap on the Home tab as shown.

Please refer to the next section 4 for details.



2.2 Ambient temperature display

The ambient temperature of the room where your baby is sleeping is displayed on the top left-hand corner as shown.



WARNING:

Temperature displayed is ambient room temperature and NOT the temperature of your baby.



2.3 Streaming of music / lullaby

Music / Lullaby stored on the iPhone/ iPad can be streamed to your baby on the Infant Snooze.

Tap on the Music tab.

To stream a soothing lullaby to calm your baby,

 Tap the preferred lullaby or song from the list & it will play repeatedly

To set music sleep timer,

- Tap on the "Off" icon to turn it on
- Select period for playing till the lullaby stream turn off



HINT:

Charge your iPhone/iPad while streaming music to maintain power.

WARNING:

Music stream function is enabled only when the infant Snooze is powered on.



2.4 Baby sleeping log

Past 7 days' daily session of your baby sleep cycles are log.

Tap on the Sleep log tab.

To select the date for viewing,

• Tap on the drop down menu (shown by "Today")

To view the sleep session for the selected date,

• Scroll your fingers left or right on the graph

The sleep sessions are displayed graphically by rectangular blue bars

The total sleep duration for the selected day is computed.



WARNING:

Baby sleep log function is enabled only when the Infant Snooze is powered on.

2.5 Baby Breath Scope

The baby activity status pattern can be viewed graphically.

Tap on the Breath Scope tab as shown.

The graphical pattern and iconic representation of the current baby activity will be displayed.



WARNING:

Breath Scope function is enabled only when the Infant Snooze is powered on. Graphical pattern are based on current baby activity status and cannot be recorded.



3. BABY ACTIVITY STATUS INDICATION ON iPhone/ iPad

3.1 Sleeping

The display will be as shown when your baby is sound asleep.

The baby breath movement count per minute (BPM) is indicated on the top right-hand corner.



3.2 Baby movement

The display will be as shown when your baby is moving.





3.3 Baby absence

The display will be as shown when your baby is not on the Infant Snooze



4. ALARM CONDITIONS FOR THE iPhone/ iPad APPS

The baby activity states which may require attention of parents /caregivers comes with alarms. Alarms for some states can be disabled by parents /caregivers. The mandatory alarm is not user-selectable.

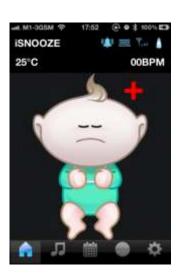
4.1 No breath movement

No breath movement alarm is a **mandatory alarm** to inform parents/caregivers when no body movement is detected from the baby.

Alarm will be activated after 15 seconds of no breath movement detected.

The display will be as shown after alarm is cleared.

Audio alarm will also be activated on the Infant Snooze with the red LED blinking.



WARNING:

During no body movement alarm activation,

 Alarm volume on the Infant Snooze is fixed at maximum Music stream is paused



4.2 Wake up alert

The wake up alert is meant to inform parents/ caregivers when the baby has woken up and is crying or agitated. It will be activated only after the baby is asleep for more than 5 minutes.

The alarm will be activated when both constant baby movement period of 20 seconds and baby's sound are detected.

The display will be as shown after alarm is cleared.



WARNING:

The wake up alert can be enabled or disabled in the Settings tab. Alert will be disabled during music / lullaby stream to prevent false alert due to sound.

HINT:

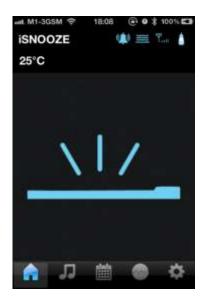
Only place the baby on the Infant Snooze when baby is asleep.



4.3 Baby absence alert

The baby absence alert is meant to inform parents/ caregivers when the baby has rolled / was carried out of Infant Snooze or is not on the Infant Snooze

The alert will be activated and the display will be as shown after alarm is cleared.



WARNING:

The absence alert can be enabled or disabled in the Settings tab. Alert is disabled during music / lullaby stream.

WARNING:

There may be exceptional unknown situations eg.

- 1) where babies toss or rotate such that only part of their body lies on the Infant Snooze,
- 2) parent/caregiver's hand or elbow may press / hit on the Infant Snooze or on the cot/mattress where the Infant Snooze is placed when carrying up the baby rendering the current state of the baby to be non-deterministic.

As a precaution for the unknown states, the display will be indicated as shown, to alert parents/caregivers to check on the baby. Please attend to your baby.





5. OTHER STATUS INDICATIONS ON THE iPhone/ iPad APPS

5.1 Out of range / Link loss

The range between the iPhone/ iPad and iBabyGuardTM Infant Snooze is up to 30m line of sight. Indoor limits may be reduced, subject to the layout of the building concrete structure and functional performance of the iPhone/ iPad used.

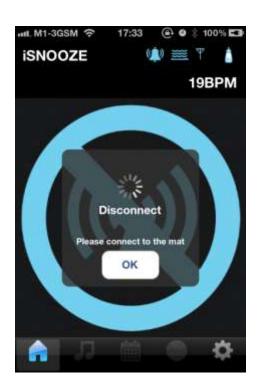
When communication between the **iPhone/ iPad** and mat is lost, link loss alarm will be activated and display is as shown.

To maintain connection,

- Walk closer towards the Infant Snooze with the iPhone/ iPad
- Tap the 'Reconnect' button on the iPhone/ iPad

The connection period is 5 minutes window. If the link is still not established after 5 minutes,

- Press the power button once on the Infant Snooze
- Go to Settings -> General -> Bluetooth -> select ON on the iPhone/ iPad
- On their iPhone/ iPad, under Devices, tap on the Bluetooth device name for the Infant Snooze Apps to pair and connect with the Infant Snooze (while Infant Snooze is still in pairing mode such that LED is blinking red & green).



WARNING:

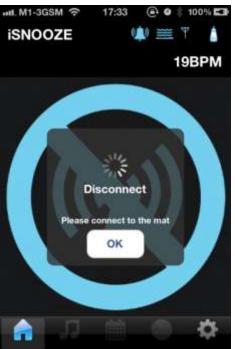
Link loss alarm will be also activated on the iPhone/ iPad when the Infant Snooze is switched off.

5.2 Manual pairing of Infant Snooze and iPhone/ iPad

To manually pair the mat with another iPhone/ iPad, do the following.

- On the current iPhone/ iPad, go to Settings
 Seneral -> Bluetooth -> select OFF
- Tap on the Apps disconnection notification on the top of the iPhone/ iPad as shown
- Tap 'OK' to acknowledge the Apps disconnection
- Turn off & on the Infant Snooze again. The LED will be blinking red & green to indicate pairing mode
- On the new iPhone/ iPad, go to Settings -> General -> Bluetooth -> select ON
- Under Devices, tap on the Bluetooth device name for the Infant Snooze Apps to pair and connect with the Infant Snooze (while Infant Snooze is still in pairing mode such that LED is blinking red & green).





5.3 Low battery alert for Infant Snooze

When the battery for the Infant Snooze is low, low battery alert for the Infant Snooze will be indicated as shown.

Tap "OK" to clear alert and return to baby activity monitor state.

Alert tone will be triggered at every minute interval till Infant Snooze battery is replaced.



WARNING:

After clearing the alert, low battery indication will also be reflected in the status bar till battery for the Infant Snooze is replaced.

In the case of no connection between Infant Snooze and the iPhone/ iPad during Infant Snooze low battery state, the Infant Snooze will alarm and the red LED will blink.

TIPS:

To conserve battery power, switch off the Infant Snooze after use every day.

5.4 Error 1: Fiber sensor is broken

When the fiber sensor is broken, the display will be as shown and alarm will be activated.

• Please contact your service center.



5.5 Error 8: Weight limit indication for the Infant Snooze

The display will be as shown to indicate high pressure, such as heavy weight on the Infant Snooze or the baby sitting up. Alarm will be activated.

 Please do not use the Infant Snooze with weight exceeding limit



WARNING:

If the weight limit error icon remains when the baby is in sleeping position, the baby weight had exceeded the defined weight limit of the Infant Snooze.



6. EXCEPTIONS MANAGEMENT FOR iPhone/ iPad

Below is an outline of the various possible user scenarios during the exceptions on the iPhone/ iPad such as calling out, receiving call, in power-save mode or using another application, when using the Infant Snooze Apps. The user scenarios may vary for different phone models based on their exceptions management methodology.

Calling / Receiving call

When receiving or making a call on your smart phone, all alarm and reminder functions will be deactivated.

IPhone/ iPad in power save / screen save mode

Alarm and reminder functions will be triggered if user enabled notifications and audible settings.

Using another Apps

Alarm and reminder functions will be triggered if user enabled notifications and audible settings.



7. TROUBLESHOOTING AND FAQ

Problem	Possible cause	Remedy
False alarm	 The baby may have excessive movement when the parent/caregiver is playing next to the baby or attending to the baby's need (changing diapers, feeding, patting) External event such as patting action, high vibration or motorrunning activities near the Infant Snooze 	Switch off the iPhone/ iPad Apps when the parent/caregiver is attending to the baby. Switch it on again to continue monitoring when baby is asleep.
No alarm tone	Battery may be low	Check battery level and replace battery if needed.
No movement detected	The sensitivity level may be low.	Adjust up the sensitivity level with the SELECT button
Baby movement status indicated on the iPhone/ iPad Apps when baby is sound asleep	Baby may have strong movement patterns	 Adjust down the sensitivity level with the SENSITIVITY button
Out of range indication	 The Infant Snooze and iPhone/ iPad are too far apart. The Infant Snooze or iPhone/ iPad may be placed near large metal objects. The link between the Infant Snooze or iPhone/ iPad may be lost Battery is not inserted on the Infant Snooze. 	 Try to adjust the relative distance nearer between the Infant Snooze and iPhone/iPad. Ensure battery is inserted on the Infant Snooze side. Power off and on again for both the Infant Snooze and iPhone/iPad to try establishing the link. Ensure battery is inserted on the Infant Snooze.
Error codes (indicated on iPhone/ iPad)	Possible cause	Remedy
E1	The fiber sensor is broken	 Infant Snooze is no longer functioning. Please contact your service center.
E8	High pressure, such as heavy weight on the mat or the baby sitting up.	 If the indication remains when the baby is in sleeping position, the baby weight had exceeded the defined weight limit of the Infant Snooze



8. MAINTENANCE

- **DO NOT** subject the Infant Snooze to sharp folds as it may damage the sensing element and affect the functionality and sensitivity of the Infant Snooze.
- **DO NOT** wash or immerse the whole Infant Snooze in water. Clean the Infant Snooze with a soft damp cloth and allow to dry. Avoid using any chemical or cleaning detergent.
- Keep your Infant Snooze away from sources of moisture. It may cause the electronic control circuit to malfunction.
- The operating temperature range for the **iBabyGuard**TM **Infant Snooze** is from 10^oC 40^oC. **DO NOT** operate beyond this range as it may not function according to defined specifications.

9. TECHNICAL SUPPORT

Before you contact the Technical support, please read the Troubleshooting and FAQ section.

If you have questions about the use or features of the product please contact your local distributor/Retailer.

Please include as much information possible from the packaging material. This will help us in speeding the process.

10.LIMITED WARRANTY

Your **iBabyGurad**TM **Infant Snooze** is covered warranty for malfunction in the electronic parts only, for a period of 12 months from the date of the original purchase, when used in accordance with the usage condition provided with the unit. Malfunction due to misuse, not in accordance with the usage condition, will not be covered in the warranty.

We will, at our discretion, repair or replace the product should it fails to function properly when used as directed within the warranty period.

This warranty does not cover the battery, damaged as a result of accidents, improper maintenance or any other form of misuse. The warranty is also void if the owner attempts to fold the Infant Snooze when instructed not to as stated in the user manual, repairs or modifies the product in any way. We are not liable for any incidental or consequential damages with regard to this product. The warranty also excludes any liability other than what is stated above.

"Made for iPhone" and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPhone, or iPad may affect wireless performance.

iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.



This device complies with the essential requirements of the EMC Directive 2004/108/EC, R&TTE Directive 1999/5/EC and LVD Directive 2006/95/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the EMC Directive 2004/108/EC, R&TTE Directive 1999/5/EC and LVD Directive 2006/95/EC:

- EN 60950
- EN50371
- EN 301489-1
- EN 301 489-17
- EN 300328

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 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 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.

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

IMPORTANT NOTE:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

For any technical assistance contact the technical support center online: support@iBabyGuard.com