



## vtech Safe & Sound Audio Monitor User Manual

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User's manual  
BM1100  
Safe & Sound Audio Monitor



**Model: BM1100**  
For product support please call: 1 300 369 193

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## Congratulations

on purchasing your new VTech product. Before using this product, please read **Important safety instructions** on page 11 of this manual.

This manual has all the feature operations and troubleshooting necessary to install and operate your new VTech product. Please review this manual thoroughly to ensure proper installation and operation of this innovative and feature rich VTech product.

## Important safety instructions

When using your equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury, including the following:

1. Follow all warnings and instructions marked on the product.
2. Adult setup is required.
3. This product is intended as an aid. It is not a substitute for responsible and proper adult supervision and should not be used as such.
4. This product is not intended for use as a medical monitor.
5. Do not use this product near water. For example, do not use it next to a bath tub, wash bowl, kitchen sink, laundry tub or swimming pool, or in a wet basement or shower.
6. **CAUTION:** Use Only Supplied Battery. Do not dispose of batteries in a fire. They may explode.
7. Use only the adapters included with this product. Incorrect adapter polarity or voltage can seriously damage the product. Baby unit power adapter: Input 100-240V AC 60 Hz; output: 6V DC 450 mA Parent unit power adapter: Input 100-240V AC 60 Hz; output: 6V DC 450 mA
8. The power adapters are intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table, or cabinet outlet.
9. Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
10. Unplug the power cords before replacing the battery pack.
11. Do not cut off the adapters to replace them with other plugs, as this causes a hazardous situation.
12. Do not allow anything to rest on the power cords. Do not install this product where the cords may be walked on or crimped.
13. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply in your home, consult your dealer or local power company.
14. Do not overload wall outlets or use an extension cord.

15. Do not place this product on an unstable table, shelf, stand, or other unstable surfaces.
16. This product should not be placed in any area where proper ventilation is not provided. Slots and openings on the back or bottom of the product are provided for ventilation. To protect them from overheating, these openings must not be blocked by placing the product on a soft surface such as a bed, sofa, or rug. This product should never be placed near or over a radiator or heat register.
17. Never push objects of any kind into this product through the slots because they may touch dangerous voltage points or create a short circuit. Never spill liquid of any kind on the product.
18. To reduce the risk of electric shock, do not disassemble this product, but take it to an authorized service facility. Opening or removing parts of the product other than specified access doors may expose you to dangerous voltages or other risks. Incorrect reassembling can cause electric shock when the product is subsequently used.
19. You should test the sound reception every time you turn on the units or move one of the components.
20. Periodically examine all components for damage.
21. Be aware of possible loss of privacy while using public airwaves. Conversations may be picked up by other nursery monitors, cordless phones, scanners, etc.
22. Children should be supervised to ensure that they do not play with the product.
23. The product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

## **SAVE THESE INSTRUCTIONS**

### **Cautions**

1. Use and store the product at a temperature between 10°C and 39°C.
2. Do not expose the product to extreme cold, heat, or direct sunlight. Do not put the product close to a heating source.
3. The battery pack should not be exposed to excessive heat such as bright sunshine or fire.
4. Make sure the baby unit and the adapter cord are always out of reach of the baby, at least 1 metre away from the baby or crib, to avoid a possible strangulation hazard.
5. Never place the baby unit inside the baby's crib or playpen. Never cover the baby unit or parent unit with anything such as a towel or a blanket.
6. Other electronic products such as HAM radios and DECT cordless phones may cause interference with your audio monitor. Try installing your audio monitor as far away as possible from these types of electronic devices.

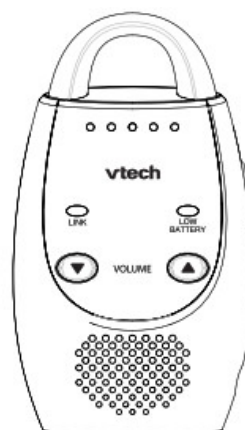
### **Getting started**

#### **Parts checklist**

Check to make sure the package contains the following items. Save your sales receipt and original packaging in the event warranty service is necessary.



**Baby unit  
(BM1100 BU)**



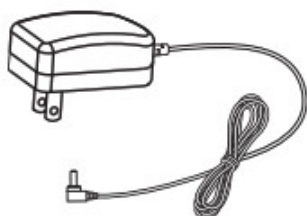
**Parent unit  
(BM1100 PU)**



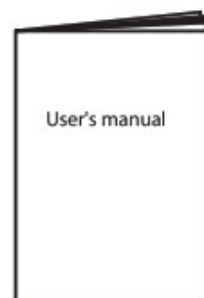
**Parent unit battery  
compartment cover**



**Battery pack for  
parent unit**



**2 Power adapters**



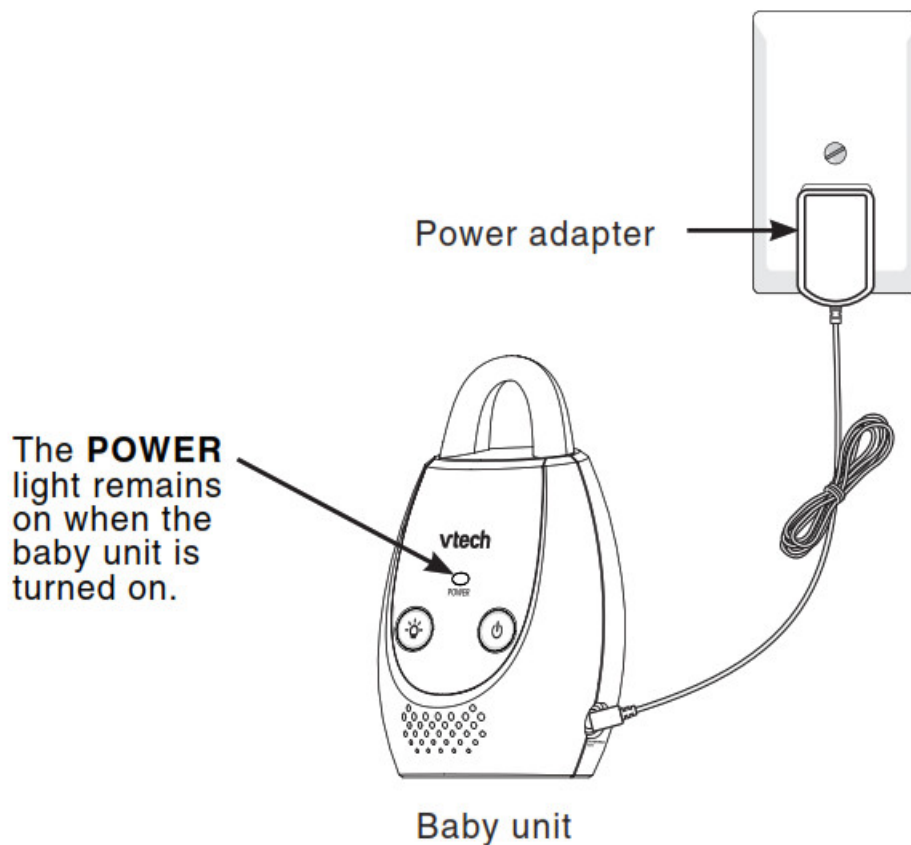
**User's manual**

#### **Note**

To purchase replacement batteries or power adapters, please call VTech on 1 300 369 193.

#### **Baby unit installation**

You can power up the baby unit by connecting it to AC power. Install the baby unit as shown below. Make sure that the power outlet is not controlled by a wall switch. Bundle the power adapter cord neatly with a twist tie. The baby unit turns on when it is powered up.



#### Note

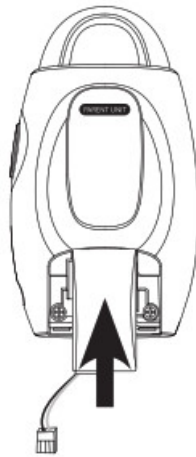
- Use only the baby unit power adapter supplied with this product. To order a replacement, contact VTech on 1 300 369 193.
- The adapters are intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it's plugged into a ceiling, under the table, or cabinet outlet.
- Make sure the unit and the power adapter cord are out of reach of children.

#### Parent unit battery installation

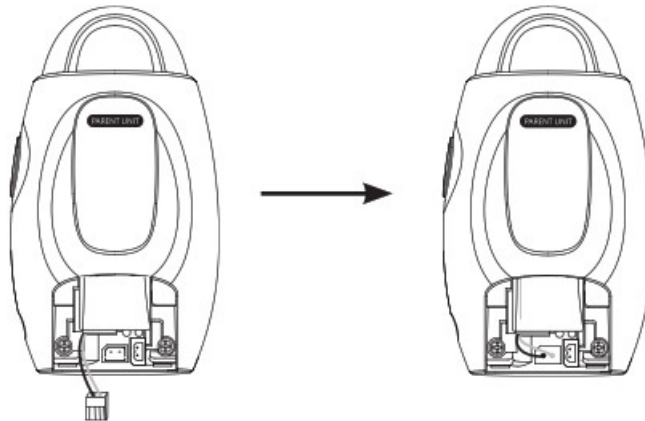
You can power up the parent unit by connecting it to AC power or to the rechargeable battery pack provided. Even if the parent unit is connected to AC power, we recommend you also install the battery pack. This guarantees continued operation in case of a power outage.

Install the battery as shown below.

1. Insert the battery into the battery compartment with the wires hanging out.



2. Plug the battery connector securely into the socket inside the battery compartment. The parent unit turns on when it is powered up. Place the wires neatly inside the battery compartment.



3. Align the cover flat against the battery compartment, then slide it towards the center of the parent unit until it clicks into place.



#### Note

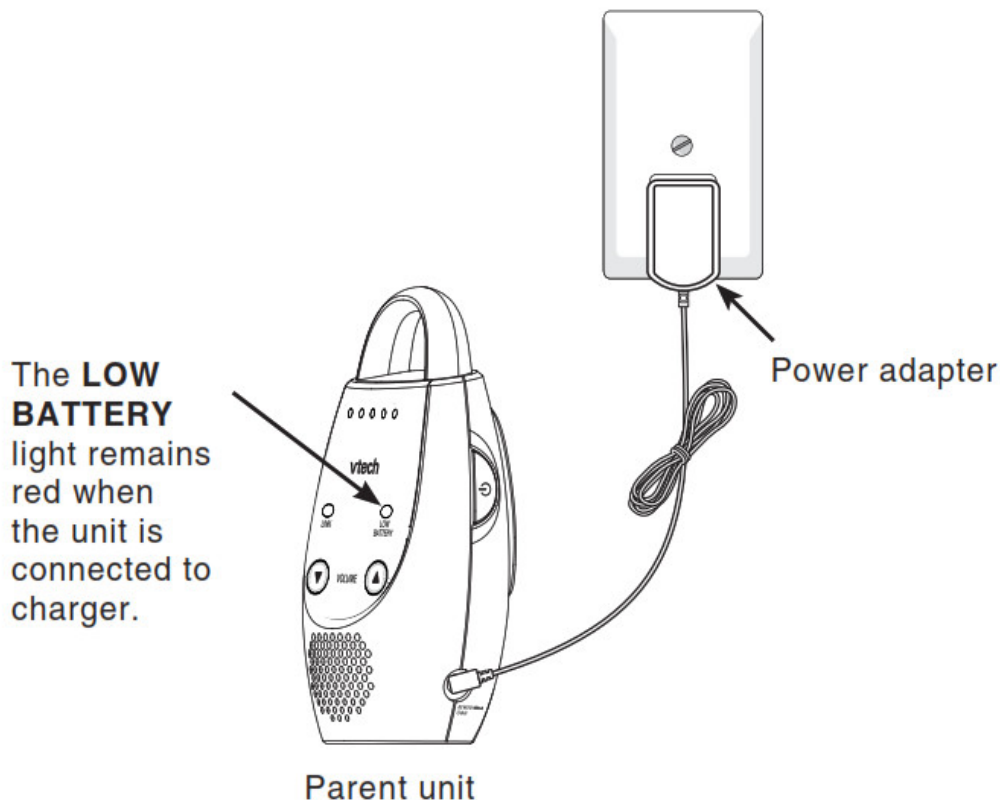
- If the parent unit will not be used for a long time, disconnect and remove the battery pack to prevent possible leakage.
- Use only the battery pack supplied with this product. To order a replacement, contact VTech on 1 300 369 193.

#### Parent unit installation

Install the parent unit as shown below.

Make sure that the power outlet is not controlled by a wall switch. Bundle the power adapter cord neatly with a twist tie.

When the battery pack is installed, the **LOW BATTERY** light turns red when the unit is connected to charger.



#### Note

- Use only the parent unit power adapter supplied with this product. To order a replacement, contact VTech on 1 300 369 193.
- The power adapters are intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table or cabinet outlet.
- Make sure the unit and the power adapter cord are out of reach of children.

#### Parent unit battery charging

The parent unit turns on after you have installed the parent unit battery or connected the parent unit to AC power (see pages 3 to 5).

The following table summarizes the **LOW BATTERY** light behavior and actions to take.

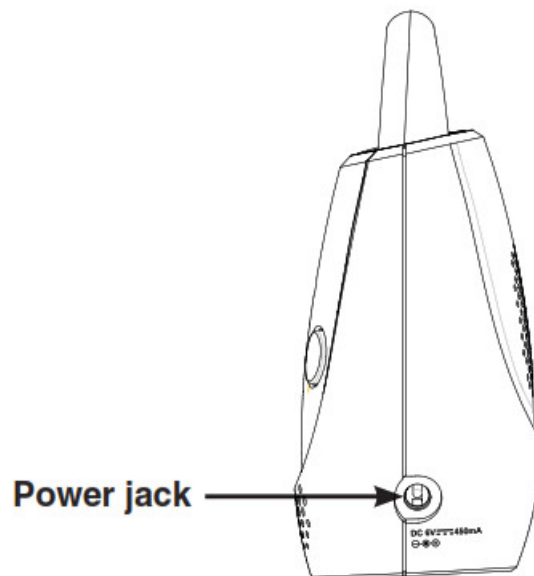
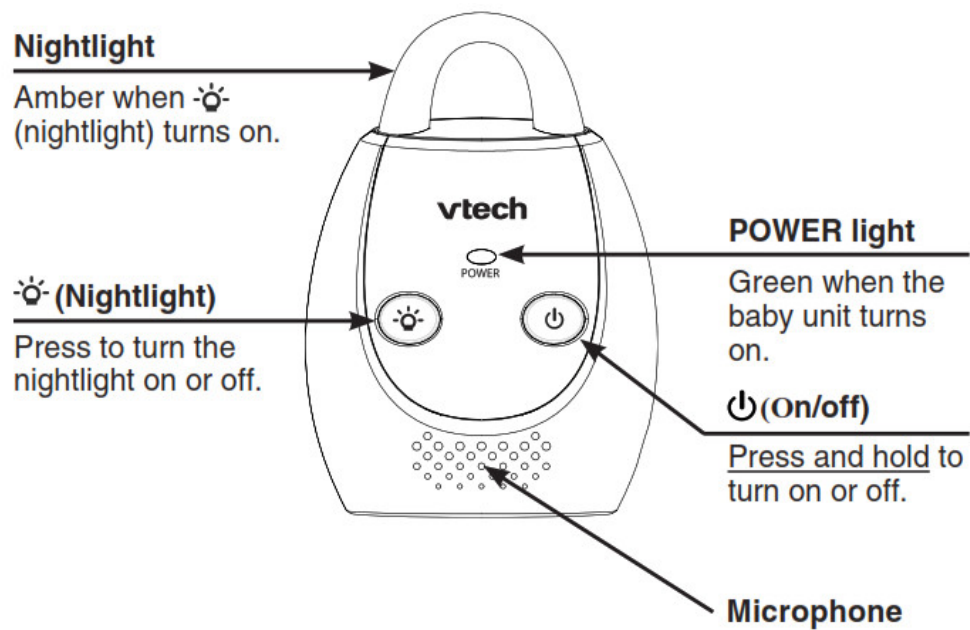
Battery indicators	Battery status	Action
<b>LOW BATTERY</b> light is off.	No battery is installed when it is connected to AC power, or the battery is installed without charging by AC power.	Make sure the parent unit battery is installed and connected to AC power.
<b>LOW BATTERY</b> light flashes red.	The battery has very little charge and may be used for only a short time.	Charge the battery Without interruption, and keep it connected to AC power.
<b>LOW BATTERY</b> light remains red steadily.	The battery is charging.	To keep the battery charged and connected to AC power when not in use.

#### Note

When you charge the battery pack initially or it is not used for a long period of time, charge it for 11 hours

continuously. It takes longer to charge the battery when the parent unit is turned on. To shorten the charging time, turn the parent unit off.

### Baby unit overview



### Parent unit overview



### Sound level indicators



Light up when there are sounds detected from the baby unit. The number of indicators that light up depends on the loudness of the sound.

Light up while adjusting the speaker volume. The number of indicators that light up indicates the current volume level setting.

### ▼/VOLUME/▲

Press to decrease or increase the speaker volume.

### LINK light

Green when the baby unit turns on.  
Flashes green when the parent unit is not linked to the baby unit.

### LOW BATTERY light

Red when the battery is charging.  
Flashes red when the battery is low and needs charging.

Off when no battery is installed and the parent unit is connected to AC power; or when the battery is installed without charging by AC power.

### Speaker

### ⏻(On/off)

Press and hold to turn on or off.

### Belt clip

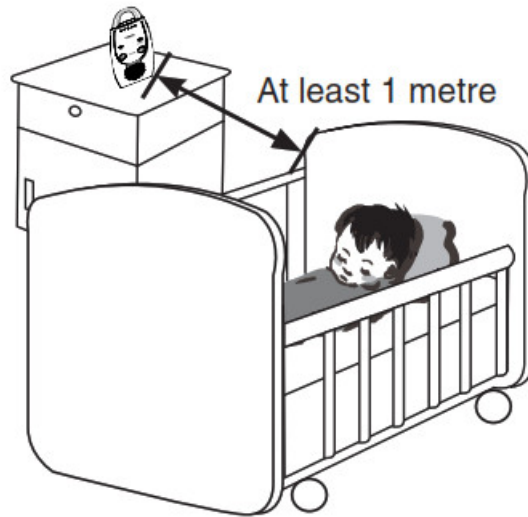
### Power jack

### Battery compartment cover

## Positioning and operating range

### Positioning the audio monitor

Place the parent unit when the operating range (see below) of the baby unit. We recommend you place the parent unit at least 1 metre away from the baby unit to avoid audio feedback. If you still experience audio feedback, move the parent unit and the baby unit farther apart.



### Audio settings

You may need to turn the speaker volume on the parent unit louder to hear the sounds transmitted from the baby unit (see page 12).

### Operating range

The operating range of the audio monitor is up to 300 metres outdoors or 50 meters indoors. The actual operating range may vary depending on the environmental conditions and other interferences such as walls, doors, and other obstructions

### Note

It is the caregiver's responsibility to stay close enough to take care of any eventuality.

### Test your audio monitor before use

It is important to test the audio monitor when it is installed initially and at regular times thereafter. Test your parent unit and baby unit if they have not been used for a long time or you suspect they are defective.

### To test your audio monitor:



1. Place the parent unit and the baby unit in the same room to test the product. Make sure the baby unit is at least 1 metre away from the parent unit.
2. Install the baby unit and the parent unit as described on pages 2 to 5. Both units should turn on when they are powered up.
3. When the parent unit is linked to the baby unit, the LINK light turns green steadily.

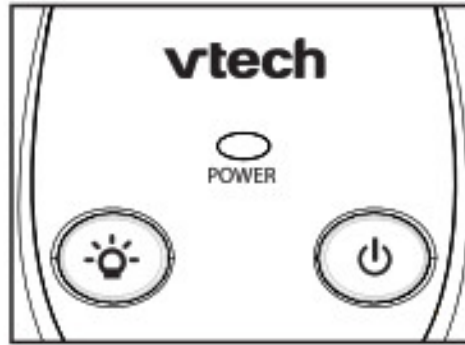
### Note

If the parent unit is not linked to the baby unit, the parent unit LINK light will flash green.

## Baby unit operation



### Power on or off the baby unit

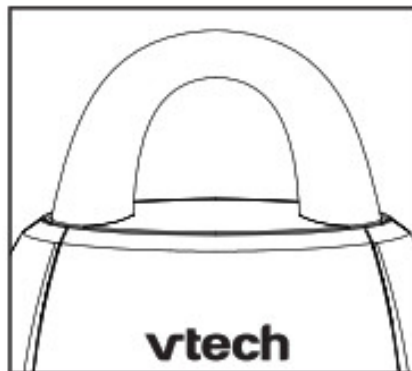
- Press and hold  for 2 seconds to turn on the baby unit. The **POWER** light turns green.
- Press and hold  for 2 seconds again to turn off the baby unit. The **POWER** light turns off.



Nightlight on the baby unit When you have turned on the nightlight on the baby unit, it will turn off automatically when no sound is detected within 15 minutes.



#### To turn on the nightlight:

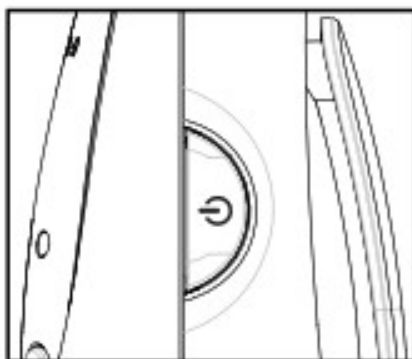
- Press  on the baby unit. The Nightlight turns amber. To turn off the nightlight:
- Press  again on the baby unit. The Nightlight turns off.



#### Parent unit operation

##### Power on or off the parent unit

- Press and hold  for 2 seconds to turn on the parent unit. The LINK light turns green.
- Press and hold  for 2 seconds again to turn off the parent unit. The LINK light turns off.

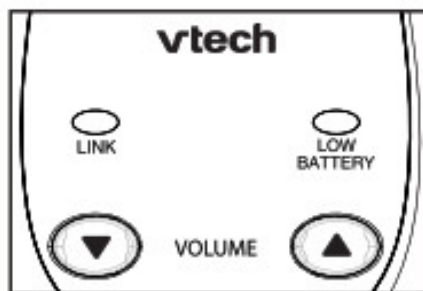


#### • Note

If the parent unit is not linked to the baby unit, the parent unit LINK light will flash green.

## Speaker volume

You can change the speaker volume (listening volume) from ○○○○○ (Level 1) to ○○○○○ (Level 5), or turn it off to ○○○○○ (Volume off). The speaker volume is preset to ○○○○○ (Level 3).



**To adjust the speaker volume:**

- Press **▼/VOLUME** or **VOLUME/▲** when the parent unit is not in use.

## Appendix

### Parent unit battery

**It takes up to 11 hours for the battery pack to be fully charged.**

The battery needs charging when:

- A new battery pack is installed in the parent unit.
- The parent unit beeps four times every minute.
- The battery pack is properly installed.
- LOW BATTERY light flashes on the parent unit.

### CAUTION:

- Use Only Supplied Battery.
- Do not dispose of the battery pack in a fire. Check with local waste management codes for special disposal instructions.
- Do not open or mutilate the battery pack. Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
- Exercise care in handling the battery pack in order not to create a short circuit with conductive materials.
- Charge the battery pack provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.
- Observe proper polarity orientation between the battery and metallic contacts.
- To prevent fire or shock hazard, do not expose this product to water or any type of moisture.

## Troubleshooting

If you have difficulty with this product, please try the suggestions below. For customer service, contact VTech on 1 300 369 193.

**My audio monitor does not work at all.**

- Make sure the baby unit and the parent unit are installed correctly (pages 2 to 5).
- Make sure the parent unit battery pack is installed (pages 3 and 4) and charged correctly (page 6). For optimum daily performance, charge the parent unit when it is not in use.
- Make sure the power adapters are securely plugged into the outlet not controlled by a wall switch.
- Make sure the power adapter cords are plugged firmly into the baby unit and parent unit.
- Make sure the baby unit and the parent unit are turned on.
- The parent unit may be too far away from the baby unit. Move the parent unit closer to the baby unit (but not less than 1 metre).
- Unplug the electrical power to the baby unit and parent unit. Wait for approximately 15 seconds, then plug it back in. Turn on the baby unit and the parent unit. Allow up to one minute for the baby unit and the parent unit to synchronize.
- Charge the battery in the parent unit for up to 11 hours.
- If the battery is completely depleted, it may take up to 30 minutes to charge the parent unit before it can be used for a very short time (page 6).
- Completely remove and install the battery again. If that still does not work, it may be necessary to purchase a new battery.
- Large obstructions may impact the reception. Try to relocate the baby unit, away from large obstructions such as walls and doors.
- Other electronic products such as HAM radios and DECT cordless phones can cause interference with your audio monitor. Try installing your audio monitor as far away as possible from these types of electronic devices.

**The audio monitor produces high-pitched noise.**

- The parent unit may be too close to the baby unit or another parent unit. Make sure the parent unit and the baby unit are least 1 metre away from one another.

**My parent unit plays any sounds from the baby unit and I think it is too noisy.**

- You may need to adjust the speaker volume on the parent unit (page 12).

**My parent unit does not play any sound when there is noise from the baby unit.**

- Make sure the parent unit is powered up by connecting it to AC power (page 5) or to the rechargeable battery pack provided (page 3).
- Make sure the power adapter and the parent unit are plugged in correctly and securely (page 5).
- Make sure the parent unit is turned on (page 12) and the speaker volume is not set to ○○○○○ (Volume off) (page 12).
- The parent unit may be too far away from the baby unit. Move the parent unit closer to the baby unit (but not less than 1 metre).
- If the parent unit is powered by the provided battery pack, make sure there is sufficient charge. Charge the battery in the parent unit for up to 11 hours.
- Other electronic products such as HAM radios and DECT cordless phones can cause interference with your audio monitor. Try installing your audio monitor as far away as possible from these types of electronic devices.
- Large obstructions may impact the reception. Try to relocate the baby unit, away from large obstructions such

as walls and doors.

- Completely remove and install the battery again. Turn on the baby unit and the parent unit. Allow up to one minute for the parent unit and the baby unit to synchronize.

**The LOW BATTERY light flashes on the parent unit.**

- Charge the battery in the parent unit for up to 11 hours.
- Completely remove and install the battery again and use it until fully depleted, then recharge the battery in the parent unit for up to 11 hours.
- If the above measures do not correct the problem, replace the battery.

**The battery does not charge in the parent unit or the parent unit battery does not accept charge.**

- Make sure the battery is installed in the parent unit battery compartment correctly. The LINK light on the parent unit should be on.
- Completely remove and install the battery again, then charge for up to 11 hours.
- If LINK light on the parent unit is not on, refer to The LINK light on the parent unit is off below.
- If the battery is completely depleted, it may take up to 30 minutes to charge the parent unit before it can be used for a very short time (page 6).
- Purchase a new battery. Refer to Parent unit battery installation (page 3) and Parent unit battery charging (page 6).

**The LINK light on the parent unit is off.**

- Make sure the parent unit battery is installed (page 3) and charged (page 6) correctly.
- Make sure the power adapter and the parent unit are plugged in correctly and securely.
- Unplug the parent unit power adapter. Wait for 15 seconds before plugging it back in. Allow up to one minute for the baby unit and parent unit to reset.

**The parent unit beeps and is not performing normally.**

- Make sure the baby unit is turned on.
- Move the parent unit closer to the baby unit (but not less than 1 metre). The parent unit may be out of range.
- If the parent unit is powered by the provided battery pack, it may not have enough charge for the parent unit to perform normally. Charge the battery in the parent unit for up to 11 hours.
- Reset the parent unit and the baby unit by turning them off and unplugging the electrical power to the parent unit and the baby unit. Wait for 15 seconds and plug them back in again. Turn on the parent unit and the baby unit. Allow up to one minute for the parent unit and the baby unit to synchronize.
- Other electronic products such as HAM radios and DECT cordless phones can cause interference with your audio monitor. Try installing your audio monitor as far away as possible from these types of electronic devices.

**The link between the baby unit and the parent unit is lost every now and then, and I'm experiencing sound interruptions.**

- Move the parent unit closer to the baby unit (but not less than 1 metre). The parent unit may be out of range.
- Reset the baby unit by unplugging the electrical power to the baby unit. Wait for 15 seconds and plug it back in again. Turn on the baby unit and the parent unit. Allow up to one minute for the parent unit and the baby unit to synchronize.

### **Common cure for electronic equipment.**

- If the audio monitor is not responding normally, try the following (in the order listed):
  1. Disconnect the power to the baby unit and the parent unit.
  2. Remove the battery packs in the parent unit and then install again.
  3. Wait a few minutes before connecting power back to the baby unit and the parent unit.
  4. The baby unit and the parent unit should turn on when they are powered up.
  5. Wait for the parent unit to synchronize with the baby unit. Allow up to one minute for this to take place.

### **Operating range**

The baby unit and the parent unit can communicate over only a certain distance – which can vary with the locations of the baby unit, the parent unit, the weather, and the layout of your home. When the parent unit is out of range, the parent unit beeps, and the LINK light flashes.

To improve reception, move closer to the baby unit (but not less than 1 metre).

### **Maintenance**

#### **Taking care of your audio monitor**

Your audio monitor contains sophisticated electronic parts, so it must be treated with care.

#### **Avoid rough treatment**

Place the baby unit and parent unit down gently. Save the original packing materials to protect your audio monitor if you ever need to ship it.

#### **Avoid water**

Your audio monitor can be damaged if it gets wet. Do not use the parent unit and/or baby unit outdoors in the rain, or handle it with wet hands. Do not install the audio monitor near a sink, bathtub, or shower.

#### **Electrical storms**

Electrical storms can sometimes cause power surges harmful to electronic equipment. For your own safety, take caution when using electrical appliances during storms.

#### **Cleaning your audio monitor**

Your audio monitor has a durable plastic casing that should retain its luster for many years. Clean it only with a soft cloth slightly dampened with water or mild soap. Do not use excess water or cleaning solvents of any kind.

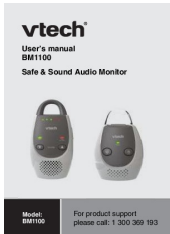
Remember that electrical appliances can cause serious injury if used when you are wet or standing in water. If the baby unit and/or parent unit should fall into water. **DO NOT RETRIEVE IT UNTIL YOU UNPLUG THE POWER CORDS FROM THE WALL.** Then pull the unit out by the unplugged cords.

Frequency control	Crystal controlled PLL synthesizer
Transmit frequency	Baby unit: 1881.792-1897.344 MHz Parent unit: 1881.792-1897.344 MHz
Channels	10
Nominal effective range	Actual operating range may vary according to environmental conditions at the time of use.
Power requirements	<p><b>Use only power adapters listed below:</b>  Baby unit adapter:  Input: 100-240V AC 60Hz  Output: 6V DC 4 450mA  Parent unit adapter:  Input: 100-240V AC 60Hz  Output: 6V DC C 450mA</p> <p><b>Adapters' information:</b>  AU:  Shenzhen Ruijing Industrial Co., Ltd.  Model no.: RJ-AS060450S001  P/N: RJ-AS060450S001SB240</p> <p>EU:  Ten Pao – S004LV0600045  RuiJing – RJ-AS060450E002</p> <p>UK:  Ten Pao – S0031B0600045  RuiJing – RJ-AS060450B001  For pluggable equipment, the socket-outlet (power adaptor) shall be installed near the equipment and shall be easily accessible.</p> <p><b>Use only the battery listed below:</b>  <b>Parent unit battery information:</b>  GPI – VT55AAAH2BMJZ  CORUN – Ni-MHAAA550*2  Rating: 2.4V 550mA AAA size Ni-MH</p>



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Version A





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Safe Sound Audio Monitor, BM1100