

BM-148 USER MANUAL

Congratulations

You have just purchased a quality baby monitor. Please read the instructions thoroughly before using the monitor system and keep it for future reference.

Safety Precautions

When using this unit, basic Safety Precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit or mentioned in this operation instruction.
3. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water such as bathtub, shower or pool. Immersion of this unit in water could cause an electrical shock.
5. Place the unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating.
7. Install the unit where no one can step or trip on the cord.
8. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
9. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to authorized service center or qualified technician when service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
10. Do not expose the unit to extreme temperatures such as areas near a hot radiator or stove or in a hot car.
11. Do not place lighted objects such as candles, cigarettes on the unit.

Caution:

This product cannot replace responsible adult supervision.

- This Baby Monitor is intended as an aid. Do not use it as a medical monitor or a substitute for responsible and proper adult supervision.
- Make sure the Parents unit and adaptor cable are always out of child's reach. Do not place the Baby Unit inside the baby's crib or playpen!

WARNING:

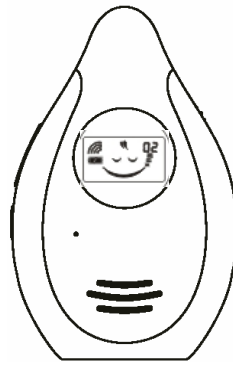
To prevent the risk of fire or electrical shock, do not expose this unit to rain or any type of moisture.

Content and Features

LCD version:



Parents unit



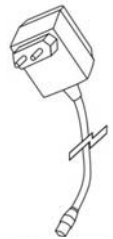
Baby unit



Supplied Re-chargeable batteries

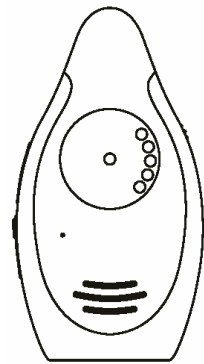


AC Adaptor for Baby unit

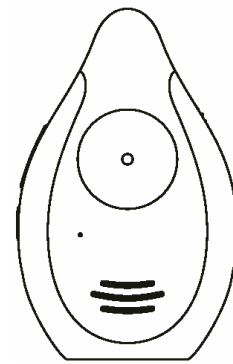


AC Adaptor for Parents unit

LED Indicator version:

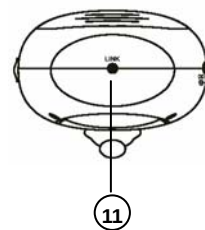
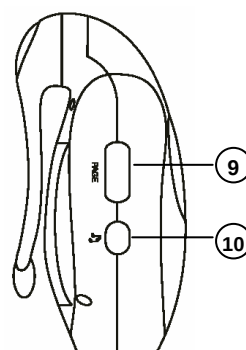
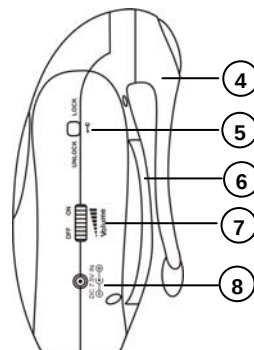
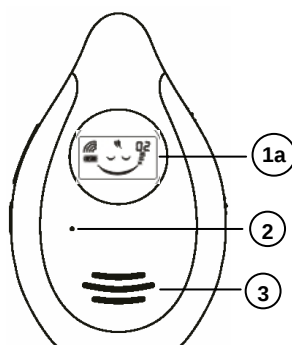


Parents unit

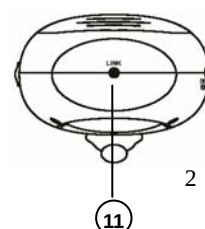
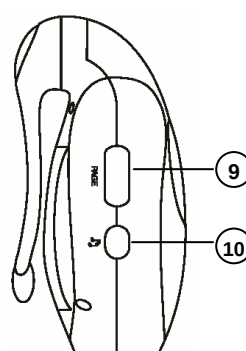
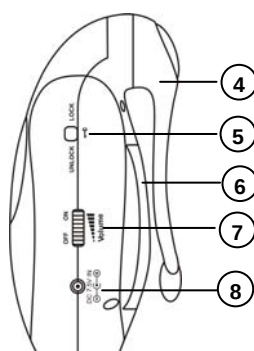
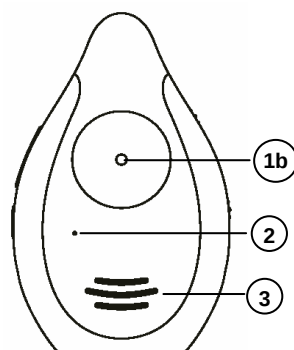


Baby unit

Baby unit : LCD version



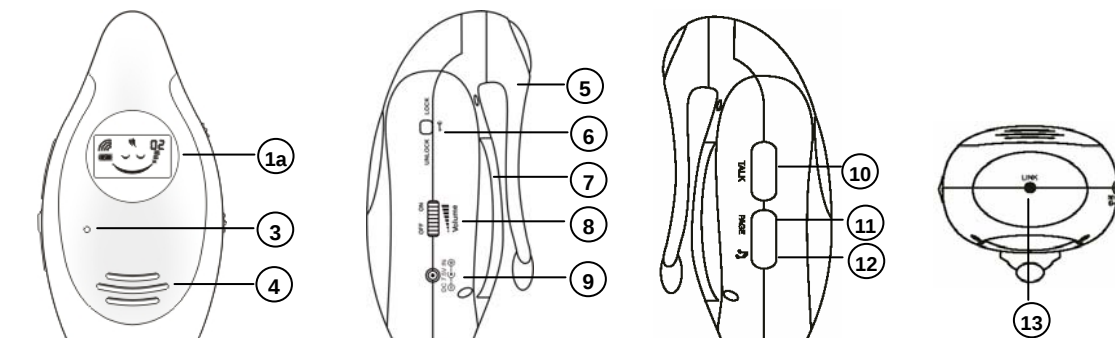
LED Indicator version



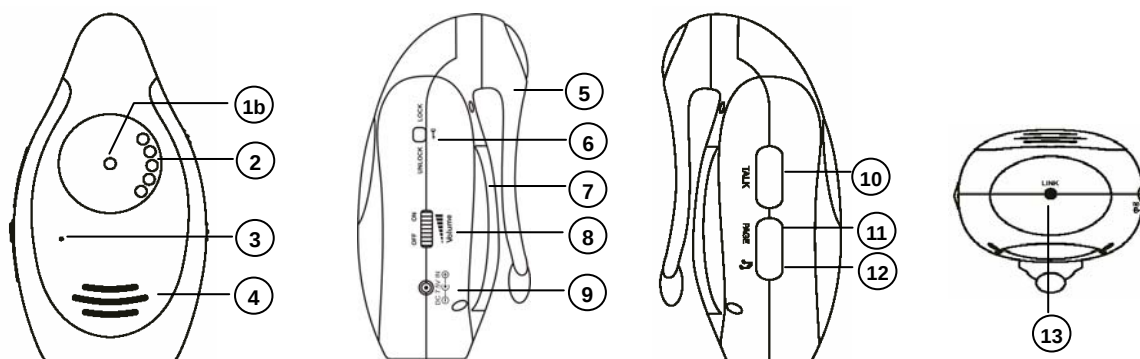
- 1a. LCD Display (for LCD version)
- 1b. Power Indicator : Red, Green and Orange (for LED Indicator version)
2. Microphone
3. Speaker
4. Belt Clip
5. Lock / Unlock key
6. Battery Compartment
7. Power and Volume Control
8. AC / DC Power Supply Sock
9. PAGE key
10. Music Play and Control (optional)
11. LINK key

Parents unit :

LCD version:



LED Indicator version:

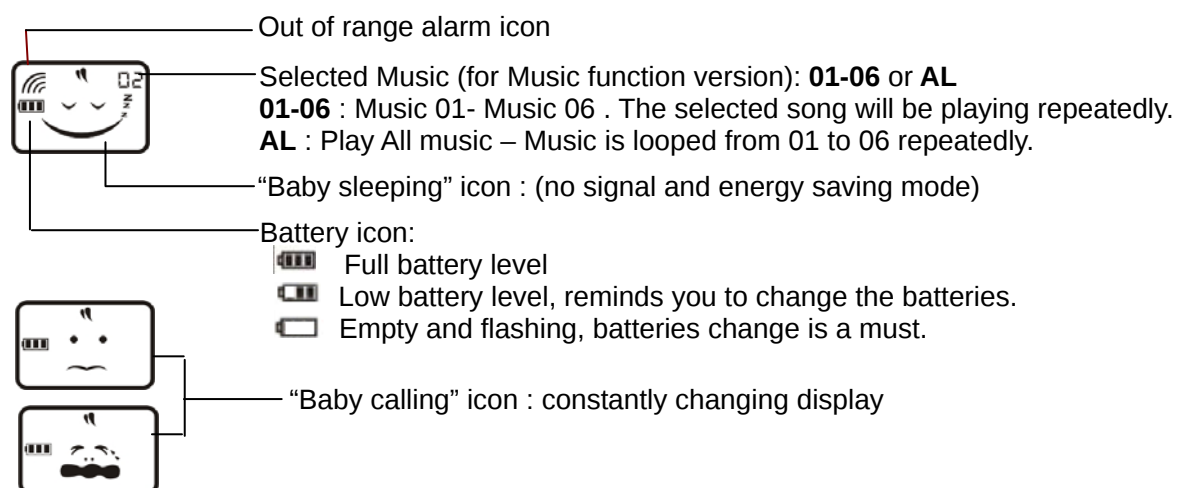


- 1a. LCD display (for LCD version)
- 1b. Power Indicator : Red, Green and Orange (for LED Indicator version)
2. Sound Lights (only for LED Indicator version)
 - One or two LEDs lighted up means shallow sound received.
 - Three to five LEDs lighted up means louder sound received.
3. Microphone

4. Speaker
5. Belt Clip
6. Lock / Unlock key
7. Battery Compartment
8. Power and Volume Control
9. AC / DC Power Supply Sock
10. TALK key
11. PAGE key
12. Music Play and Control (optional)
13. LINK Key

Indication

LCD version : Main LCD Screen



LED Indicator version : Color Index of Power Indicator

Indicator	Indication	
	Parent unit	Baby unit
Flashing Green Light	Power is good and standby	
Flashing Red Light	Battery charging	Low power; Battery charging
Flashing Red Light with “Di Di” alert in every 3 seconds	Low power	N/A
Flashing Red Light with “Di Di Di” alert in every 1 second	Out of range	N/A
Red Light	Fully charged when the unit is turned off.	
Green Light	Power is good and receiving signal	Power is good and transmitting signal
Flashing Orange Light	Scanning the corresponding code for both units	
Red Light	Scanned the corresponding code successfully	

AC Adaptor:



The AC Adaptors are low voltage power source that allow you to use your household electricity to run the Baby Monitor. Connect the AC Adaptors to the AC Adaptor Jack in the Unit. Both plug into any standard volt electrical outlet in your home. It is recommended to turn off the units before plug in or unplug the adaptors.

CAUTION: These adaptors were made with a specific design for this product. They cannot be used with any other appliance. Never use a different type of adaptor with this Baby Monitor.

Privacy Protection

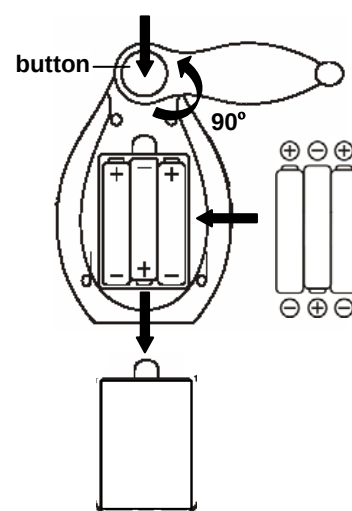
Always remember that you are using public airwaves when you use the Wireless 2.4GHz Digital Baby Monitor. Sound may be broadcasted to other receiving devices. Conversations, even from rooms near the Baby unit, may be broadcast as well.

CAUTION: To protect your privacy, always turn the system off when not in use. It is possible that the Parents unit may be interfered from other devices in the 2.4GHz frequency range. To minimize this potential problem, more than 65000 ID code have been provided for your use. If you experience interference while using one ID code setting, simply select to another ID code.

Battery Installation

Please charge the rechargeable batteries before first time usage.

1. **Ensure the unit is off.** Press the button on the belt clip and rotate it clockwise or counterclockwise for 90°.
2. Open the battery compartment door.
3. Insert 3 * AAA batteries into the Baby unit and Parents unit according to the +/- signs shown in the battery compartment, respectively.
4. Replace battery compartment door. Press and rotate the belt clip to its normal position.



Battery Tips:

- If the product is not in use for a long time, disconnect both units from the household electrical outlet. And remove the batteries or the exhausted batteries from the units, otherwise battery leakage and corrosion can damage them.
- Dispose the batteries safely.
- Non-rechargeable battery is not to be recharged.
- Rechargeable batteries are only to be charged under adult supervision.

- Danger of explosion if battery is incorrectly replaced. Replace only with the batteries of the same and equivalent type(TSUEN SHING, BT-101-AC).

Battery Charging

If the battery level becomes low, the units will display the below :

Model	Baby Unit	Parent Unit
LED Indicator version	Power indicator flashes Red light.	
	No Alert sound	Emits a alert tone (Di Di) in every 3 seconds.
LCD Display version	Flashing 	
	No Alert sound and empty battery	Emits a alert tone (Di Di) in every 3 seconds

In this case, user needs to recharge the supplied rechargeable batteries or change for new alkaline AAA batteries.

Charging the batteries

The rechargeable batteries to the Baby unit and Parents unit must not be taken out of the units for charging.

1. Use only the AC adaptors which are included in the package, plug into any nearby standard household electrical outlet.
2. Once connect them with the units, charging automatically begins.
3. The charging time for completely charging empty battery takes 8 hours when the unit is turned off.

Charging and Fully charged Indication:

	LED Indicator version	LCD version
In charging (Unit is turned on.)	Flashing Red light slow	 or  The battery icon loops and flashes.
In charging (Unit is turned off.)	Flashing Red light fast	 The battery icon loops and flashes.
Fully charged (Unit is turned on.)	Green light / Flashing Green light	 or  The battery icon is full and stops flashing.

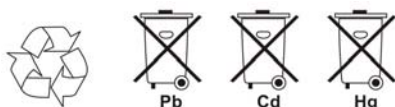
Fully charged (Unit is turned off.)	Red light	 The battery icon is full and stops flashing.
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Note:

- User can also install 3 alkaline AAA batteries instead of the supplied re-chargeable batteries.
- Or directly operated by the supplied adaptors.

Help protect the environment

Batteries with symbols shown opposite must not be disposed in general domestic waste.



Instead, take them to a collecting point for old batteries or special waste products(as your local authority for details) or return them to the dealer you bought them from. They will ensure batteries are disposed safely.

Testing Before First Time Usage

A. Test the Baby unit transmission and the Parents unit reception.

1. Place Baby unit and Parents unit in room where you intend to use it.
2. Set both Baby unit and Parents unit to the corresponding code by pressing the **LINK** key at the bottom of the units for different ID code to ensure privacy.
There are more than 65000 ID codes user selection.
3. Then:
 - The LCD displays standby status.(LCD version)
 - The power indicator lights and the power is on.(LED Indicator version)

NOTE:

For the first time usage, turn on both units, they can automatically scan the corresponding code at once without press any key. If reset the corresponding code for both units, user has to press the **LINK** key.

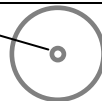
B. Baby unit emission:

1. Place Baby unit in room where you intend to use it.
2. Push the SENSITIVITY switch to a desired position to turn on the Baby unit transmission.
3. As soon as the Baby unit transmits a signal, then:

LCD version	LED Indicator version
 	Green light 

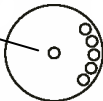
Constantly changing display-readouts	
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4. The transmitter is standby status when no signal is transmitted.

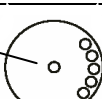
LCD version	LED Indicator version
	Flashing Green light 

C. Parents unit reception:

1. Place Parents unit in room where you intend to use it.
2. Slide the VOLUME switch to a desired position and the unit is ready for reception.
3. If the unit receives a signal,

LCD version	LED Indicator version
  Constantly changing display-readouts	Green light  Green light

4. The receiver is standby status when no signal is received.

LCD version	LED Indicator version
	Flashing Green light 

When you experience interference (buzzing or static, etc.), reset both units to another corresponding code. (details please refer to P.11 – scan the corresponding code for the units)

IMPORTANT! Test sound reception before use and whenever location of Baby unit is changed. (Refer to Testing Before First Time Usage)

Note:

- * Position the Baby unit at least 1 meter away from the baby so that the microphone can pick up the child's sound.
- * Unwrap and fully extend power cord for best transmission if adaptor is used. Plug the adaptor into the nearest standard household electrical outlet.

Operations Procedures

A. Power On / Off

1. Connect the Parents unit with the AC adaptor. Plug it into the nearby standard electrical outlet or insert 3 AAA alkaline batteries.
2. Turn on  at the right side upward of the unit, a click sound to be heard indicates the unit is turned on.
3. Turn  downward, a click sound indicates the unit is off.

B. Volume Adjustment

Rotate  for adjusting the desired volume level.

1. Turning it upward for increasing volume level;
2. Turning it downward for decreasing volume level.

C. Talk to Baby unit (Only for Parents unit)

TALK key is located at the left side of the Parents unit.

1. Press and hold **TALK** key to talk to the Baby unit.
2. Release **TALK** key and return to the receiving status.

Remark : When the Parents unit is talking to the Baby unit, the call ring tone can also be heard if press **PAGE** key of Baby unit.

D. Music Playing & Select Music (optional)

Music play  key is located at the left side of the unit. User can activate the music play and/or select a desired music to lull the baby to sleep. There are six music for selecting.

1. Press  key for about 3 seconds to activate the Music Playing function, and Music 01 will be played automatically.
2. Press  key to change music(01-06 or AL), you can hear the demonstration of different music. When you have selected the desired music, do not press  key again.

Note: Selected music will be shown on the top right corner of the LCD screen for LCD version.

3. Press  key for about 3 seconds again to turn off the music playing function.

Remarks :

- Baby unit can play music solely when the Parents unit is turned off. But Music play function of Parents unit is not available for use when Baby unit is turned off.
- When pressing the **TALK** key of Parents unit to talk to Baby unit, the music will be stopped playing.
- Music playing is not interrupted by call ring tone.
- Music playing could be interrupted by out of range alert.

E. Sensitivity Level Adjustment (Only for Baby unit)

SENSITIVITY slide switch  is located in the battery compartment. Adjust different detecting sound level sensitivity by switching the SENSITIVITY switch to either Lo (normal sensitivity : 1-2 meters) or Hi (high sensitivity : 2-6 meters) position.

Remarks : The default setting of sensitivity level is Hi.

F. Call Function

Both units can make a call ring tone to call one another.

1. Press **PAGE** key at the left side of the Parents unit or Baby unit one time to call another unit.
2. Three “BiBi” sound will be heard from Baby unit or Parents unit.
3. Each press **PAGE** key once, you will hear three “Bi Bi” sound. If no press **PAGE** key again, the call ring tone will end.

Remarks:

- When Baby unit call Parents unit, only the Parents unit can be heard three “Bi BI” sound (and power LED of Parents unit flashes RED light for LED indicator version.)
- When Parents unit call Baby unit, only the Baby unit can be heard three “Bi BI” sound (and power LED of Baby unit flashes Red light for LED indicator version.)

G. Low Battery Alert

When the unit is in low power, the details please refer to page 6 “Battery Charging” .

Remarks:

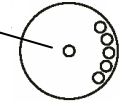
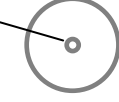
- No low battery alert for Baby unit.
- No transmission and receipt while the unit is in low battery.

H. Out of Range Alert (Only for Parents unit)

When the connection between Parents unit and Baby unit is broken , e.g.

- One of the units is turned off during connection ;
- The Baby unit is in low battery;
- The units are detected out of communication range.

The units will display the below :

	LCD version	LED Indicator version
Parents Unit	Flashing  with “Di Di Di” alert sound will be heard in every 1 second	Flashing red light  with “Di Di Di” alert sound will be heard in every 1 second
Baby Unit	Flashing 	Flashing red light 

For Blue Angel version, when only turn on the Parents unit, out of range alert sound should be heard within 30 second.

Note: Under out of range alert mode, the TALK, PAGE and music play key is not available for use.

I. Key Lock / Unlock

1. Turn the right-hand key lock side switch  to LOCK position of unit to lock key. The TALK key, PAGE key and MUSIC key are not available for use.
2. Turn the same switch  to UNLOCK position to unlock all the keys.

J. Belt Clip

The Baby unit and Parents unit can both be carried around using the belt clip provided on the rear of each unit.

How to operate 2 way communication between Parents unit and Baby unit

The Baby Phone yields high privacy and almost zero-interference to end users. There are more than 65000 ID code for user selection with the **LINK** key positioned at the bottom of the units.

NOTE:

Only scan the corresponding code for both units, they are able to connect to one another.

Operating and Setup

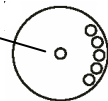
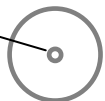
A. Scan the Corresponding Code

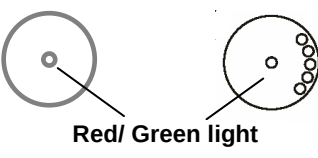
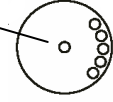
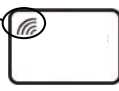
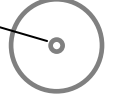
1. Turn on both units. The Baby unit will emit a random ID code to Parents unit automatically without pressing any key.
2. Once scanned the corresponding code, the units are ready for use.
The code is recorded even though you turn off the units or recharge the batteries. Or else the unit is not for use.

B. LINK key

LINK key is located at the bottom of the Parents unit and Baby unit. It is used for eliminating the corresponding code recorded in the unit and reset a new corresponding code for the Parents unit and Baby unit. The Parents unit / Baby unit can connect with another Baby unit / Parents unit with the **LINK** key to scan a new corresponding code for them.

1. Ensure both units are turned ON. Press the **LINK** key of the units with a spiky and thin object (such as toothpick).
2. Both units begin to scan corresponding code

	LCD version	LED Indicator version
Scanning the corresponding code automatically	Parent unit: Flashing 	Parent unit: Flashing Orange light 
	Baby unit: Flashing 	Baby unit: Flashing Orange light 

Scanned the corresponding code successfully	Both units :  normal status OR constantly changing display-readouts with a “Di” sound	Baby unit Parent unit  Red/ Green light with a “Di” sound
Scanned the corresponding code unsuccessfully	Parent unit: still flashing 	Parent unit: still Orange light 
	Baby unit: still flashing 	Baby unit: still Orange light 

Remarks: If operated by the supplied adaptor, please first plug in the adaptor, then power on the unit. And then scan the corresponding code with the **LINK** key if need.

C. 2-Way Communication

Usually, the detected sound is transmitted from the Baby unit to Parents unit. But Parents unit can talk to Baby unit with its **TALK** key.

1. Press and hold **TALK** key of Parents unit and talk to the Baby unit.
2. Release the **TALK** key, the Parents unit is in receiving status and wait for signal from Baby unit.

Remarks:

When pressing **TALK** key, the Parents unit does not receive any sound from Baby unit.

D. Music Control(optional)

After activating Music Play function of both units, as long as one of them adjusts music play or changes music(01-06 or AL), the setting for this function of the other unit will change accordingly.

Trouble shooting

Problems	Solutions
1. No power	- Unit is turned off. - Check if the batteries are installed properly. - Make sure the adaptor is connected to the Unit properly if using the adaptor instead of batteries. - The Unit may be in low battery status, change new batteries.

2. Message not transmitted.	- Sound sensitivity level of Baby unit is too low, turn the sound sensitivity switch to "HI" position. - Units are out of range or lost connection. Ensure the distance between the units within communication range. Note: Communication range varies depending on surrounding conditions such as physical obstructions, interference. - Make sure the TALK key of Parents unit is not pressed. - Make sure the unit is unlocked. - Ensure both units have already scanned the corresponding code.
3. No sound signal	- Volume level on Parents unit is set too low. Adjust it to higher volume. - Sound sensitivity level of Baby unit is too low, Turn the Sound Sensitivity switch to "HI" positions. - Units are out of range. Ensure the distance between the units within communication range. - Make sure the TALK key of Parents unit is not pressed. - Make sure the unit is not locked key. - Ensure both units have already scanned the corresponding code.
4. Received Conversation or sound from neighbors.	- Signal interference due to other nursery monitor on the same ID Code or cordless phone used. - Change both units to another ID code by pressing LINK key.
5. Hearing static or rustle from Parent unit.	- The both units are positioned too close to each other. Keep away two units at about 1m. - The volume is set too high. Lower the volume at the Parent unit. - Reposition or replace batteries.
6. Power LED rapidly flashes green light and can not receive or transmit	- The power is too low. Change new batteries or operated by the supplied adaptor.

Technical Specifications

Power Supply Voltage:

- Parents unit : 3 AAA batteries or rechargeable batteries &
Adaptor: AC230V, DC 7.5V (Europe version)
Adaptor: AC120V, DC 7.5V (US version)
- Baby unit : 3 AAA batteries or rechargeable batteries &
Adaptor: AC230V, DC 7.5V (Europe version)
Adaptor: AC120V, DC 7.5V (US version)

Operation Frequency : 2.401~2.482GHz

Operating Range: up to 300m in ideal conditions
up to 100m in ideal conditions(for Blue Angel version)

Mic Sensitivity : 1 to 2 meter

FCC Statement:

Caution: The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

Notes: 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.

WARNING!

FCC Radiation Exposure Statement:

This equipment complies with FCC's RF radiation exposure limits set forth for an uncontrolled environment under the following conditions:

1. This equipment should be installed and operated such that a minimum separation distance of 20cm is maintained between the radiator (antenna) & user's/nearby people's body at all times.
2. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.