

USER MANUAL
DIGITAL BABY MONITOR
MODEL:BM-254

CONGRATULATIONS

You have just purchased a qualified Wireless 2.4GHz Digital Baby Monitor. Please read this instruction carefully before using the product. Keep these instructions 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.

- Read and understand all instructions.
- Follow all warnings and instructions marked on this unit or mentioned in this operation instruction.
- This product is not intended to replace adult supervision but assistant tool. It is important that users should stay within the communication range of the system all the times when using it.
- This product intended for indoor use only. Outdoor use may damage the system.
- It is essential to check reception regularly. Please see the reception section for complete instructions.
- Never put the system near water, such as bathtub, bathroom sink, laundry tub, kitchen sink or in a wet basement, etc. Immersion of this unit in water could cause an electrical shock.
- Place the unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
- Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating.
- Install the unit where no one can step or trip on the cord.
- 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.
- 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.
- Do keep the system away from heat sources such as radiators, heat registers, stoves or other appliances producing heat. Also keep these components out of direct sunlight.
- Always unplug the AC adaptors if not using the system for long periods of time.
- The outer surface of the Baby Unit and Parent Unit can be cleaned with a cloth lightly dampened with water or a mild cleaning solution.



The AC Adaptor is device that allows you to power on the system with your household electricity. The adaptor can be separately connected to DC IN connectors of Parent Unit and Baby Unit. Please be reminded to switch off the system before plugging or unplugging the adaptors.

CAUTION: These adaptors are with exclusive design for this system. Please NEVER try to power up the system with different adaptors or use them for any other appliances.

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

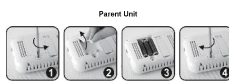
Privacy Protection

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

CAUTION: To protect your privacy, always turn the system off when not in use. It is possible that the Parent Unit may be interfered from other devices in the 2.4GHz frequency range.

Battery Installation

- Installation**
- Remove screw by a screwdriver.
 - Open the battery door.
 - Insert 3 AAA alkaline batteries into the Baby unit and 3 AAA alkaline or rechargeable batteries into the Parent unit according to the polarity shown in the battery compartment.
 - Press down the screw and screw it up again.
 - User can directly operate the unit by the supplied AC adaptor.



- Use only the AC adaptor included supplied.
- Unwrap and fully extend the AC adaptor cord.
- Plug AC adaptor into a standard wall outlet.
- Wrap up and secure any excess AC adaptor cord.

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 baby unit, otherwise battery leakage and corrosion can damage them.
- Dispose the battery safely.
- Non-rechargeable battery is not be recharged. It may have a fire.
- Rechargeable batteries are only to be charged under adult supervision.

Warning!

- The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- Danger of explosion if battery is incorrectly replaced. Dispose of used batteries according to the instructions. Replace only with the same and equivalent type.
- This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Indication	Light Indicator	
	Parent unit	Baby unit
Normal Operation	Power indicator shows stable red light	Power indicator shows stable green light
Low battery	Red blank battery icon shows on main screen	The right (last) LED indicator flashes green light
In charging (Power Off)	Power indicator shows stable green light	
In charging (Power On)	A charging battery icon shows on main screen	N/A
Pairing status	Select pairing option in main menu of parent unit	The power indicator quick flashes green light

Battery Status

Low battery status

Baby unit: When low battery, the right (last) LED indicator flash as green light.

Please change the battery.

Parent unit: When low battery red icon shows on main screen of parent unit. Please change the battery or charge the assigned rechargeable batteries.

Charging the Batteries (only for Parent Unit)

Please charge the rechargeable batteries for first time usage.

- Use only the supplied AC adaptor for charging the assigned rechargeable batteries.
- Plug into any nearby standard electrical outlet at home and charging automatically begins. A charging battery icon shows.
- When fully charged, a full battery icon shows. The charging time for completely empty batteries is about 8 hours while the parent unit is turned off.

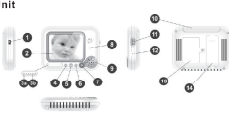
To test the video reception

- Place the Baby Unit in the most appropriate location (e.g. on top of the table, mounting on the wall or ceiling).
- Focus the camera lens towards the baby.
- Check the video reception on screen of the Parent Unit and adjust the appropriate brightness level. (To adjust brightness, please see the "Functions Setup" section)

To test the sound quality

- Speak in a whisper and with normal conversation sound level to Baby Unit.
- Put the Parent Unit far away enough (at least 1m) from Baby Unit to prevent noise feedback.
- Check the sound reception on speaker of the Parent Unit and adjust the appropriate volume. (To adjust volume, please see the "Functions Setup" section)

Parent Unit



- 1 VOX Switch
- 2 LCD Display
- 3 Power Indicator
- 4 Signal strength indicator
- 5 Option key (←)
- 6 Menu key
- 7 PTT Switch
- 8 Microphone
- 9 Speaker
- 10 Antenna
- 11 On/Off & volume switch
- 12 Battery door
- 13 stand

Baby Unit



- 1 Night Light + pairing key
- 2 Music key
- 3 Power indicator
- 4 Audio indicator
- 5 Camera
- 6 Night light
- 7 Compartment
- 8 Infrared sensor
- 9 Thermal Via
- 10 On/Off Switch
- 11 AC Adaptor Jack
- 12 Microphone
- 13 Speaker

Operations Procedure of Parent unit

Power ON/OFF

- Remove screw by a screwdriver. Open the battery door.
- Insert 3 AAA alkaline batteries into the Parent unit according to the polarity shown in the battery compartment. Replace the battery door at the inclined angle, press down the screw and screw it up again. Or connect the Parents unit with the AC adaptor. Power on by switching the Power Switch unit to disk sound to be heard. Power indicator will show red light and a 3 second music will be heard.
- After powering on, image will be displayed on LCD display if signal can be caught. Otherwise, while screen will be showed.
- Power off by turning off the Power Switch unit a disk sound to be heard. Red light of the power indicator will be go off completely off after 3 seconds, no display on LCD.

Volume Control

- Increase the volume by turning up the VOL switch
- Decrease the volume by turning down the VOL switch

Main Menu

Press MENU key to enter into main menu. Use "← / →" key to select, and press again "MENU" key to confirm.

Then, Select EXIT. Parent unit will return to LCD display.

MAIN MENU	
Color LED	1
Brightness	3
Night LED	0
Pairing	
Exit	

Note: After finishing operation for each functions of main menu, to return to the live video (if available), select and press Exit. parent unit will return to live video on its own. Use "← / →" key to select, MENU key to confirm]

The below main operating use: "← / →" key to select, MENU key to confirm,

Color LED

- Enter into main menu by pressing "MENU" key, press "← / →" key to select Color LED, then confirm and enter into Color LED menu.
- Press "← / →" key to turn on / turn off the Color LED. "1" means turning on the color light of the baby unit and "0" means turning off the color light of the baby unit. Press MENU key to confirm.

- Select EXIT option and press "MENU" key to the live video,

Remarks: 1-the lowest 6-the loudest

Brightness

- Enter into main menu by pressing "MENU" key, press "← / →" key to select Brightness option, then confirm and enter into Brightness menu.
- Press "← / →" key to adjust the brightness level from 1 to 6. Press MENU key to confirm.
- Select EXIT option and press "MENU" key to the live video.

Remarks: 1-the darkest, 6-the brightest

Night LED

- Enter into main menu by pressing "MENU" key, press "← / →" key to select Night LED option, then press MENU key to confirm and enter into Night LED menu.
- Press "← / →" key to turn on or turn off Outdoor Mode. 1 Outdoor mode is turned on, 0 Outdoor mode is turned off. Press "MENU" key to confirm.
- Select "EXIT" option and press "MENU" key to the live video.

Remarks: Outdoor Mode is used when baby unit is placed in the outdoors.

Pairing

- For Parent Unit, enter into main menu by pressing "MENU" key, then press "← / →" key to select "Pairing" option and waiting.
- For Baby Unit, press "Link" key 3 seconds until power indicator is fast flashing red light. Press "MENU" key parent unit to confirm.
- When pairing successfully, parent unit will return to live video on its own. Meanwhile, both parent and baby unit will flash red light.
- If not, no display on LCD screen of parent unit, it is repeat above steps.

Music Function

- At the live video, press "← / →" key to turn on music.
- Press the key "▶" to choose the music order as follows, music 1 > music 2 > ... music 6 > cycle

Talking Function

- Under normal communicating, baby unit is transmitting sound and image to parent unit.
- If mother unit need to talk back to parent unit, press PTT key of parent unit to talk.
- Release PTT key to stop talking back to baby unit. The parent unit will be returned to receiving status,

VOX

When turning on VOX, transmission will be activated ONLY if sound is detected by Baby Unit. LCD screen would be turned off if no sound is detected within 30 seconds. Once the sound is detected, it will automatically turn on the LCD screen. This is power saving feature.

Infrared Night Vision

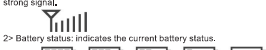
When Baby unit is placed in a certain dark environment, parent unit will be switched to Night Vision function automatically. Parent unit can also receive image and sound. The image shows in white and black.

Out of Range Alert

- Under below conditions, out of range alert can be heard from parent unit
- Baby unit is turned off.
- The units are detected out of communication range.
- Baby unit is in low power.

Screen Display

1> Signal Strength: 6 level for signal strength, high level means strong signal.



Operations Procedure of Baby unit

Power ON/OFF

- Remove screw by a screwdriver. Open the battery door.
- Insert 3 AAA alkaline batteries into the Baby unit according to the polarity shown in the battery compartment. Replace the battery door at the inclined angle, press down the screw and screw it up again. Or connect the Baby unit with AC adaptor. Power on by turning on the Power Switch. Power indicator will flash and a 3 second music will be heard.
- Power off by turning off the Power Switch. All functions of baby unit will be stopped

Night Light

Besides controlled on Parent unit, night light can also be turned on / turned off by pressing "1" key of Baby unit.

Music Function

Besides controlled on Parent unit, music function can also be turned on / turned off by pressing "▶" key of Baby unit.

- Press "2" key to turn on the music.
- Press "▶" key again to choose the music order as follows, music 1 > music 2 > ... music 6 > cycle
- Press "▶" key under the status of music playing to exit music function.

Audio Indicator

Under normal communicating, audio indicator will be flashing based on the sound volume. Lower volume will activate less indicator lights. Otherwise, the louder the voice is, the more the flashing lights will be.

Low battery indicator

When the unit is in low battery, the power indicator will be flashing which means the battery is low. The lower the battery is, the faster the flashing light will be.

Technical Specification

Parent Unit

- operation voltage: DC 5.5V 800mA or 3 x "AAA" rechargeable/ alkaline batteries
- Temperature Range: 0°C ~ 40°C
- Power consumption: <4W operation Frequency: 2.4GHz ~ 2.4835GHz
- Max Range (clear line of sight): up to 250m (in open area)
- Resolution: 320 x 240 Pixel
- Image Speed: < 12 films/second
- LCD: 3.5" Color LCD
- Size of Hand Held: 120 x 91 x 26 mm

Baby Unit

- Operation voltage: DC5.5V 800mA or 3 x "AAA" alkaline batteries
- Temperature Range: 0°C ~ 40°C
- Power consumption: <4W Operation Frequency: 2.4GHz ~ 2.4835GHz
- Mic Sensitivity: > 1 to 2 meter
- Size of Baby Unit: 118 x 85 x 66 mm

Trouble Shooting

Problem	Possible Cause	Solution
Power indicator LED shows red light up	● Unit is not connected. ● Power is switched off. ● Batteries may be used up. ● AC Adaptor not properly connected.	● Check the USB/FX switch in the "LCD" position. ● Make sure that power outlet is turned on. ● Recharge new batteries. ● Check AC Adaptor pin and socket and its connection.
No image or sound	● Wrong reception level. ● Unit may be too far from Video off screen. ● Unit may be set VOX On. ● Unit may be too high. ● Unit may be too low.	● Set the exposure in the second level. ● Set the Parent unit to Normal mode. ● Press any key on the Parent unit to turn into Normal mode. Select no trouble "VOX OFF". ● Adjust volume level to the desired level.
Image flickers	● Object is too close to the Baby Unit. ● Baby or Parent Unit near over-exposed condition.	● Remove objects from the Baby Unit at desired level. ● Press any key on the Parent unit and select pairing option in main menu of parent unit to pair again.
Audio feedback (howling)	● Signal interference due to other household appliances, computers or mobile phones and others. ● Volume is too high.	● Press the "▶" key of baby unit and select pairing option in main menu of parent unit to pair again. ● Identify and eliminate the source of interference.
Dark image at Night	● Distance between two units are too short. ● Distance is too high.	● Press any key on the Parent unit and select pairing option in main menu of parent unit to pair again. ● Lower the volume.
Color LED	● Power is switched off. ● Distance may be used up. ● Exposure level is too high.	● Check the connection of the adaptor and the Parent unit. ● Recharge new batteries. ● Adjust the Exposure level.
No Live Video (No signal)	● Wrong channel. ● Unit may be turned off.	● Double both units have already started the communicating channel. ● Turn on the Baby unit. ● Confirm both units are in the same communication range. ● Double new batteries or charged by the supplier adaptor.

This version is for FCC.

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:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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

—Recent 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.

Any changes or modifications not expressly approved by the responsible for compliance could void the user's authority to operation.