vtech®



Crystal Sounds[™] DECT digital monitor

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Welcome

Thank you for purchasing the VTech® **Crystal Sounds™ DECT Digital Monitor**. VTech® is dedicated to producing reliable telecommunications, baby gear and toy products that give parents the reassurance they need. This VTech® baby monitor provides support by ensuring you can hear your baby clearly within a long range without any distracting noise and offers you personal settings to help keep your baby healthy and comfortable.

DECT Digital Technology

The DECT (Digital Enhanced Cordless Telecommunications) technology digitally transmits sound across multiple channels using the newly available DECT frequency band. This technology guarantees zero interference from other wireless appliances and a crystal clear signal between the baby unit and the parent unit.

SAVE THESE INSTRUCTIONS

Important Safety Instructions

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

- Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
- Use only the adaptors included with this product. Incorrect adaptor polarity or voltage can seriously damage the product.

Baby Unit Adaptor:

Input: 117V AC 60Hz Output: 6V DC 500mA

Parent Unit Adaptor: Input: 117V AC 60Hz

Output: 6V DC 300mA

A

Class 2

 There is a risk of explosion if the batteries are replaced by an incorrect type. Dispose of used batteries according to the instructions.

Use 1.5V AA (AM-3/LR6) alkaline batteries only for baby unit (batteries not supplied).

Use 1.2V AAA 750mAh Ni-MH rechargeable batteries only for parent unit (batteries supplied).

One of the following two brands of battery will be supplied for parent unit:

Brand name: BYD Model No: H-AAA750A-UN
 Brand name: GP Model No: GN75AAAHC

SAVE THESE INSTRUCTIONS

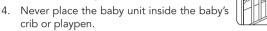
Warning

Read this user manual carefully before you use the appliance and save it for future reference.

- This baby monitor is intended as an aid. It is not a substitute for responsible and proper adult supervision and should not be used as such.
- Never immerse any part of the baby monitor in water or any other liquid.
- Check that the voltage indicated on the included adaptors corresponds to the voltage of your electrical outlets before you connect the appliance.
- 4. Only use the included adaptors to connect the parent and baby units to your electrical outlets.
- 5. Do not cut off the adaptors to replace them with other plugs, as this causes a hazardous situation.
- If the adaptors are damaged, please only replace them with the same type in order to avoid a hazard. For the correct type of adaptor, please see the 'Replacement' section of this manual.
- 7. Never use the baby monitor in moist places or close to water.
- 8. Except for the battery compartments, do not open the housing of the baby unit or parent unit in order to prevent electric shock.
- 9. The appliance 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.
- 10. Children should be supervised to ensure that they do not play with the appliance.
- 11. Use only the specified type of battery. Warranty is voided if other batteries are used. Please contact VTech® for a replacement battery pack. Contact information can be found on the last page of these instructions.
- 12. Unplug the rechargeable battery pack when the product is stored for long periods of non-use.
- 13. Unplug power cord before replacing batteries.

Caution

- 1. Use and store the appliance at a temperature between 32°F and 104°F.
- Do not expose the baby unit or parent unit to extreme cold, heat or direct sunlight. Do not put the baby unit or the parent unit close to a heating source.
- Make sure the baby unit and the adaptor cord are always out of reach of the baby (at least 3 feet away).





- Never cover the parent unit or baby unit with anything (eg. a towel or blanket).
- Always place alkaline batteries of the correct type in the baby unit.
- Always use the included rechargeable batteries for the parent unit to avoid a hazard.
- If you place the parent unit next to a transmitter or another DECT appliance (eg. a DECT telephone), the connection with the baby unit may be lost.
- Batteries should not be exposed to excessive heat such as bright sunshine or fire.

Electromagnetic Fields (EMF)

This VTech® baby monitor appliance complies with all standards regarding electromagnetic fields (EMF). If handled properly and according to the instructions in this user manual, the appliance is safe to use based on scientific evidence available today.

Technical Specifications

Frequency band: 1920MHz - 1930MHz

Frequency channels: 5

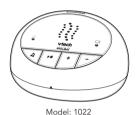
Operating temperature: 32°F-104°F

Effective range: 1000ft (outdoors), 150ft (indoors)

Parts Checklist

Included in this package:

- User's manual
- Baby unit



Model. 1022

• Parent unit



Model: 1022C

Two adaptors



6V DC 300mA (for parent unit only)



6V DC 500mA (for baby unit only)

• Ni-MH Rechargeable batteries



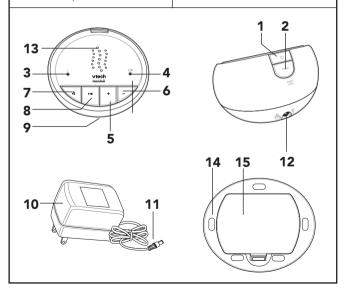
2 x AAA (AM-4/LR03), 1.2V, 750mAh

Quick Reference Guide

Baby Unit

- 1. On/off button
- 2. PAGE button
- 3. Power-on light
- 4. Battery light
- 5. Volume (+) button
- 6. Volume (-) button
- 7. Lullaby button
- 8. Play/stop button
- 9. Microphone

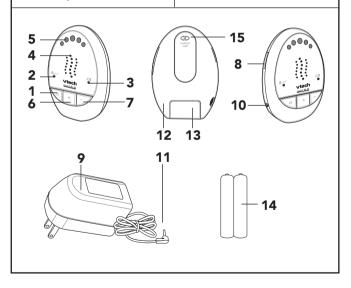
- 10. Adaptor
- 11. Large appliance plug
- 12. Socket for large appliance plug
- 13. Speaker
- 14. Battery compartment
- 15. Battery compartment cover



Parent Unit

- 1. On/off button
- 2. Secure link indicator
- 3. Battery light
- 4. Speaker
- 5. Sound level indicators
- 6. Volume(+) button
- 7. Volume(-) button
- 8. Sensitivity adjustment button
- 9. Adaptor

- 10. Socket for small appliance plug
- 11. Small appliance plug
- 12. Rechargeable batteries compartment
- 13. Battery compartment cover
- 14. Rechargeable batteries (included)
- 15. Belt clip



Preparing Your Baby Monitor

Default Settings

The first time you turn on the parent and baby units, they are operating with default settings. Adjustments can be made. Please see corresponding sections in this manual for instructions.

Speaker volume setting (baby and parent unit)....page 14

Default: level 3 (out of 5 levels)

Sensitivity setting (parent unit)....page 14

Default: level 3 (out of 5 levels)

Power

The baby unit can be connected to a power source or powered by batteries. Even if the baby unit is connected to a power source, we recommend also inserting batteries. This guarantees automatic backup in case of a power outage.

Technical Specifications:

- Baby Unit
- 1 x AC power adaptor 6V DC 500mA (included)
- 4 x AA (AM-3/LR6) 1.5V alkaline batteries (NOT included)

Parent Unit

- 1 x AC power adaptor DC 6V 300mA (included)
- 2 x AAA (AM-4/LR03) 1.2V 750mAh Ni-MH rechargeable batteries (included)





Operation:

Baby Unit

Adaptor operation

Put the large appliance plug into the baby unit's socket, and then plug the adaptor into a wall socket. The power-on light will glow. The baby unit is ready for use.



Battery operation

- 1. The baby unit runs on 4 pcs 1.5V AA (AM-3/LR6) batteries (not included). Please use alkaline batteries for best performance.
- 2. Do NOT use rechargeable batteries, as the baby unit does not have a charging function.
- 3. Place 4 pcs 1.5V AA (AM-3/LR6) batteries into the baby unit's battery compartment, noting the + and configuration. Replace the battery compartment cover. The power-on light will glow. The baby unit is ready for use.



4. Note the + and - configuration inside the battery compartment for using alkaline batteries.

Battery level indication

1. Battery light will flash when the baby unit's battery power is low.



2. The light will be off when the baby unit batteries have sufficient charge or it is plugged in to an electrical outlet.



Parent Unit

Rechargeable battery operation

1. The parent unit runs on 2 x AAA, 1.2V, 750mAh, Ni-MH rechargeable batteries.



- 2. Charge the parent unit before you use it for the first time or when the battery light indicates that the battery is low (the battery light glows). The parent unit indicates that the battery power is low 30 minutes before the battery power is completely empty.
- 3. To charge the parent unit, insert the small appliance plug into the parent unit, then plug the adaptor into a wall socket. The battery light flashes while charging.



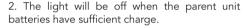
4. When the batteries in the parent unit are fully charged, the low battery light goes off. The parent unit is ready for use.

Note:

- When you charge the parent unit for the first time or after a long period of non-use, turn it off and let it charge continuously for at least 10 hours.
- Charging normally takes 12-14 hours, but it takes longer when the parent unit is on while charging. To keep the charging time as short as possible, turn off the parent unit during charging.
- When the battery power is fully charged, the parent unit can be used cordlessly for about 24 hours.
- After a long period of non-use, recharge the parent unit before using.

Battery level indication

- 1. The light will flash when the parent unit batteries are low.
- Low battery





3. The light will be on steadily when the parent unit is being charged.

<u>Positioning and Operating Range</u>

Positioning the Baby Monitor

Place the baby unit at least 3 feet away from your baby. Place the parent unit within the operating range of the baby unit. Make sure the parent unit is at least 3 feet away from the baby unit to avoid acoustic feedback.

Operating Range

The operating range of the baby monitor is about 1000 feet in open air. Depending on the surroundings and other interfering factors such as walls, doors and ceilings, the range may be shorter. Indoors, the operating range is up to 150 feet.

Technical Specifications:

Dry Materials	Material Thickness	Loss of Range
Wood, plaster, cardboard, glass (without metal, wires or lead)	< 12 inches	0-10%
Brick, plywood	< 12 inches	5-35%
Reinforced concrete	< 12 inches	30-100%
Metal grills or bars	< 1/2 inch	90-100%
Metal or aluminium sheets	< 1/2 inch	100%

Note:

For wet and moist materials, the loss of range may be up to 100%.

Baby Monitor Features

Turning the Units On/Off

Baby unit

 Press and hold the on/off button for about 2 seconds to turn on the unit.



The ON light on the baby unit will briefly light up.



3. Press and hold the on/off button for about 2 seconds to turn off the unit.



Parent unit

1. Press and hold the on/off button for about 2 seconds to turn on the unit.



The light indicators on the parent unit will briefly light up.



The secure link indicator will blink red as the parent unit searches for a secure connection to the baby unit.



4. If a secure connection is not made within about 30 seconds to one minute, the secure link indicator will shine steadily red.



5. When a secure connection is found, the light will shine steadily green.



6. Press and hold the on/off button for about 2 seconds again to turn off the unit.



Adjusting Speaker Volume

- Press the volume control buttons (+,-) on the parent unit until the desired speaker volume for the parent unit has been reached. There are 5 volume levels.
- 2. The sound level indicators show the volume level during adjustment:
 - OOOOO = Parent unit volume is off



- ●0000 = Minimum volume



- ●●●● = Maximum volume



Note:

If the volume is set to a high level, the parent unit consumes more power.

Adjusting Microphone Sensitivity

- Press the sensitivity adjustment button on the parent unit until the desired microphone sensitivity for the baby unit has been reached. There are 5 sensitivity levels.
- The sound level indicators show the sensitivity level during adjustment:
 - ●0000 = Minimum sensitivity level



- ●●●●● = Maximum sensitivity level



Note:

If the microphone sensitivity level is set to a high level, more sounds are transmitted and the parent unit consumes more power.

Sound Level Indicators & Sound Alert

The baby unit continuously monitors the sound level in your baby's room, and the sound level indicators on the parent unit let you know if there is any activity. If your baby cries, you will see the sound level

indicators light up on the parent unit.

- 1. As long as the baby unit does not detect a sound, the sound level indicators on the parent unit will not be lit.
- When the baby unit picks up a sound, one or more sound level indicators light up on the parent unit. The number of sound level indicators that light up corresponds to the loudness of the sound picked up by the baby unit.
- For silent baby monitoring, when the baby unit picks up a high volume of sound, all 5 sound level indicators will light up and the parent unit will beep as a sound alert.

Paging the Parent Unit

If you have misplaced the parent unit, you can use the PAGE button on the baby unit to locate the parent unit.

Note: The paging function only works when the parent unit is on.

- Press the PAGE button on the baby unit. The parent unit will emit a paging alert tone.
- To stop the paging alert tone, press the PAGE button again, or press any button on the parent unit.

Playing Lullabies

- When there is no lullaby playing, press the lullaby button or the play/stop button on the baby/parent unit to start playing lullabies.
- 2. Press the play/stop button again to play or stop a lullaby.
- 3. Press the lullaby button to skip to the next lullaby.
- 4. Press +/- buttons on baby unit to adjust lullaby volume.

Note:

- The lullabies will play continuously for approximately 15 minutes. To preserve battery life, the unit will automatically stop playing lullabies after approximately 15 minutes without input. To reactivate the lullabies, press the lullaby button or play/stop button.
- The lullaby volume on the baby unit cannot be changed using the parent unit.

Lullabies

- 1. Brahms Lullaby (with singing voice)
- 2. Rock-A-Bye, Baby Traditional
- 3. Fais Do Do French Traditional
- 4. Au Clair de la Lune French Traditional
- 5. Berceuse Chopin
- 6. Twinkle, Twinkle Traditional
- 7. La Berceuse Brahms
- 8. Minuet Mozart
- 9. Minuet Bach
- 10. Canon in D Pachelbel
- 11. Sleeping Beauty Waltz Tchaikovsky
- 12. A Little Night Music Mozart
- 13. Air Bach
- 14. Klipp Klapp Gallop Strauss
- 15. Beautiful Dreamer Foster
- 16. Rondeau Mouret
- 17. Minuet Boccherini
- 18. Nocturne in Eb #2 Chopin
- 19. Piano Concerto A Mozart
- 20. Happy Farmer Schumann

Out of Range Alert

- 1. When the parent unit is out of range of the baby unit, the secure link indicator on the parent unit will flash.
- 2. After about 20 seconds, the parent unit will beep and the secure link indicator will shine steadily red.
- 3. To regain reception move the parent unit closer to the baby unit.
- 4. Once the connection between the parent and baby units has been established, the secure link indicator will shine steadily green.







Troubleshooting

Problem	Possible causes	Solutions
Secure link indicator on parent unit does not light up when the on/off button is pressed.	No power from parent unit	Recharge parent unit by connecting it to a power supply. Replace with new alkaline batteries or connect the baby unit to the power supply.
	Baby unit and parent unit may be out of range of each other.	Move the parent unit closer to the baby unit, but not closer than 3 feet.
Secure link indicator on parent unit flashes.	Baby unit and parent unit may be out of range of each other. Baby unit may be turned off.	Reduce the distance between the units, but not closer than 3 feet. Turn on the baby unit.
Battery light on baby unit flashes.	Alkaline batteries in baby unit are running low.	Replace alkaline batteries or connect the baby unit to the power supply.
Battery light on parent unit flashes.	Rechargeable batteries in parent unit are running low.	Recharge the parent unit with the adaptor.

Problem	Possible causes	Solutions
Parent unit beeps.	Parent unit has lost connection with baby unit.	Reduce the distance between the units, but not closer than 3 feet. Turn on the baby unit.
	Rechargeable batteries in parent unit are running low.	Recharge the parent unit by connecting it to the power supply.
	Baby unit's sound level has reach maximum level.	
Monitor emits a high-pitched noise.	Baby unit and parent unit are too close to each other.	Make sure the parent unit and baby unit are at least 3 feet away from each other.
	Parent unit volume is too high.	Decrease parent unit volume level.
Cannot hear sound or baby cry from parent unit.	Parent unit volume is too low or completely turned off. Baby unit microphone	Increase parent unit volume level. Use the parent unit
	sensitivity level is too low.	to increase the baby unit's microphone sensitivity level.
	Baby unit and parent unit may be out of range of each other.	Reduce the distance between the units, but not closer than 3 feet.

Problem	Possible causes	Solutions
Parent unit reacts too slowly to sounds from the baby unit.	Baby unit microphone sensitivity level is too low.	Use the parent unit to increase the baby unit's microphone sensitivity level.
Parent unit reacts too quickly to environmental sounds.	Baby unit picks up sounds other than those of your baby. Baby unit microphone sensitivity level is too high.	Move baby unit closer to the baby, but not closer than 3 feet. Use the parent unit to decrease the baby unit's microphone sensitivity level.
Baby unit battery power drains too quickly.	Baby unit microphone sensitivity level is too high and consumes power quickly. Baby unit volume level is too high and consumes power quickly.	Use the parent unit to decrease the baby unit's microphone sensitivity level. Decrease the baby unit's volume level.
Monitor operating range is less than the specified 1000 feet.	The 1000-feet specified operating range is only valid outdoors in open air. Inside a home, the number and type of walls and ceilings between the baby and parent units limit the operating range. Indoors, the operating range is up to 150 feet.	

Problem	Possible causes	Solutions
Parent unit operating time is shorter than specified operating time of at least 24 hours	Baby unit microphone sensitivity level is too high and consumes power quickly. Baby unit volume level is too high and consumes power quickly.	Use the parent unit to decrease the baby unit's microphone sensitivity level. Decrease the baby unit's volume level.

Frequently Asked Questions

 The technical specifications show an operating range of 1000 feet. Why does my monitor lose connection at a much shorter distance?

The 1000-feet specified operating range is only valid outdoors in open air. Inside a home, the number and type of walls and ceilings between the baby and parent units limit the operating range. Indoors, the operating range is up to 150 feet.

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

You may be approaching the outer limits of the operating range. Try a different location, or decrease the distance between the units (but not closer than 3 feet). Please note that it takes about 30 seconds to one minute before a new link is established.

3. What happens during a power outage?

If batteries are installed in both the baby and parent units, they will automatically switch to battery power if the power goes out.

4. Is my DECT baby monitor secure from eavesdropping and interference?

The 60 channels in the DECT spectrum and the monitor's secure channel search technology guarantee no interference from other appliances.

5. The technical specifications show that a fully charged parent unit has an operating time of up to 24 hours. Why is my parent unit out of battery power in much less time?

When the parent unit batteries are charged for the first time, the operating time will be less than 24 hours. The batteries reach their full capacity after charging and draining at least 4 times.

The parent unit's volume level may be too high. When the volume is set too high, the parent unit consumes more power. Decrease the volume level.

The baby unit's microphone sensitivity level may be too high. When the microphone sensitivity level is high, it picks up more sounds and transmits them to the parent unit. The parent unit then consumes more power. Use the parent unit to adjust the baby unit's microphone sensitivity level.

Appendix

Cleaning and Maintenance

Do not immerse the parent unit or the baby unit in water and do not clean them under the tap. Do not use cleaning spray or liquid cleaners.

- Unplug the baby and parent units if they are connected to a power source.
- 2. Clean the baby and parent units with a damp cloth. Make sure they are dry before re-connecting them to a power source.
- 3. Unplug the adaptors and clean them with a dry cloth.
- 4. Dispose of used batteries in an environmentally friendly manner.
- 5. If the baby unit is connected to a power supply, check its batteries for leakage every six months.

Storage

When you are not going to use the baby monitor for some time, remove the alkaline batteries from the baby unit and remove the rechargeable batteries from the parent unit. Store in a clean, dry place.

Replacement

Baby Unit

Batteries

Only replace the baby unit's batteries with $4 \times AA 1.5V$ (AM-3/LR6) batteries.

Adaptor

Only replace the adaptor of the baby unit with an adaptor of the same type. Contact Consumer Services at 1-800-521-2010 in the US or 1-877-352-8697 in Canada for replacement parts.

Parent Unit

Batteries

Only replace the rechargeable batteries of the parent unit with 2 x AAA (AM-4/LR03), 1.2V, 750mAh, Ni-MH rechargeable batteries.

Adaptor

Only replace the adaptor of the parent unit with an adaptor of the same type. Contact Consumer Services at 1-800-521-2010 in the US or 1-877-352-8697 in Canada for replacement parts.

Environmental Notices

- This baby monitor is designed and manufactured with high quality materials and components that can be recycled and reused.
- Do not throw away the baby monitor with the normal household waste. Deposit it at an official collection center for electronics recycling. Always remove all batteries before recycling the baby monitor. By doing this, you help to preserve the environment.
- Alkaline batteries contain substances that may pollute the environment. Do not throw away alkaline batteries with the normal household waste. Deposit them at an official collection center for battery recycling.

FCC and IC Regulations

FCC Part 15

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 and applicable Industry Canada specifications. 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:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. 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.

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

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 Class B digital apparatus complies with Canadian ICES-003.

For body worn operation, parent unit has been tested and meets the FCC RF exposure guidelines. Use of accessories may not ensure compliance with FCC RF exposure guidelines.

Industry Canada

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference, including interference that may cause undesired operation.

The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

This product meets the applicable Industry Canada technical specifications.

RF Radiation Exposure Statement

Baby Unit complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. Baby Unit should be installed and operated with a minimum distance of 7in between the radiator and your body. For hand held operation, the parent unit has been tested and meets the FCC RF exposure guidelines. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. For body worn operation, the parent unit has been tested and meets the FCC RF radiation exposure guideline when used with the belt clip. User must maintain a separation distance of 0.1in between the back of the unit and the body to ensure compliance. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment complies also with

Industry Canada RSS-102 with respect to Canada's Health Code 6 for Exposure of Humans to RF Fields.

Assistance

If a problem persists, please call our Consumer Services Department at 1-800-521-2010 in the U.S. or 1-877-352-8697 in Canada, and a service representative will be happy to help you.

For information on this product's warranty, please call VTech® at 1-800-521-2010 in the U.S. or 1-877-352-8697 in Canada.

Or visit our website: www.vtechkids.com