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Audio Baby Monitor

BABY GUARDIAN

3070

EN Digital Baby Monitor

WELCOME

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Please store this manual in a safe and dry place for future reference.
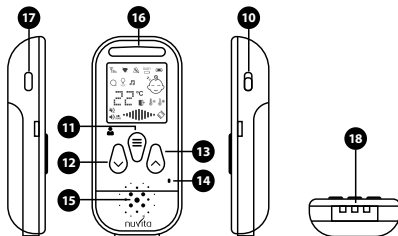
CONTROLS LAYOUT

BABY UNIT (BU)

1. Power On/Off switch
2. Menu/OK button
3. Down button
4. UP button
5. Microphone
6. Night light
7. Temperature sensor ventilation opening
8. Speaker
9. Charging contact
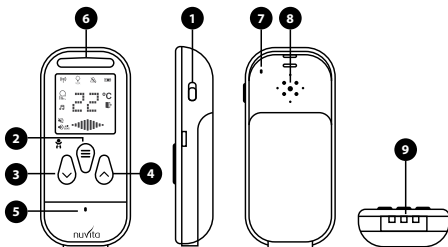
PARENT UNIT (PU)

10. Power On/Off switch
11. Menu/OK button
12. Down button
13. Up button
14. Microphone
15. Speaker
16. LED level meter
17. Talk back button
18. Charging contact

CHARGING CRADLE

19. Charging indicator
20. USB port

LCD MENU ICONS

BABY UNIT LCD	
((ᵠ))	Transmit
◯	Talk back
▮▮..	Talk back signal strength
♬	Music
🔇	Speaker mute
☼ VOX	Night light
⌀	No radiation
▥	Battery status indicator
▷	Menu exit
22	Temperature indicator
··▮▮▮▮▮··	Mic sensitivity and speaker volume bar graph
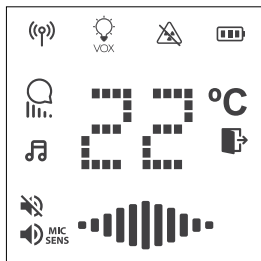
PARENT UNIT LCD	
🁢▮▮	Receive signal strength
◤	Out of range
⌀	No radiation
☼ VOX	Night light
◯	Talk back
♬	Music
22	Temperature indicator
🔇	Speaker mute
MIC SENS	BU Mic sens
▥	Battery status indicator
BABY ▭	BU low battery
🌡❄	High temperature
🌡❄	Low temperature
▷	Menu exit
◇	Vibration
··▮▮▮▮▮··	Speaker volume and mic sens bar graph
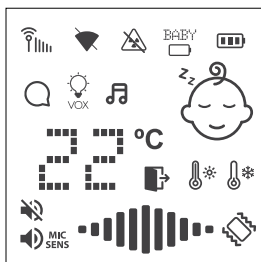
POWER SUPPLY

OPERATION FROM BATTERY PACK

The Li polymer battery pack is already installed in the unit. To exchange battery pack, press and slide open the battery door in direction as shown, take out the battery pack and disconnect from socket.

PARENT UNIT (PU) & BABY UNIT (BU)
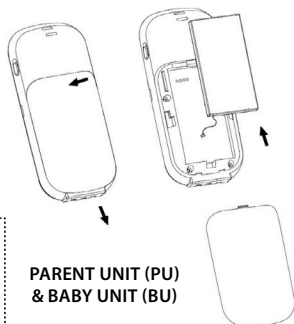
BATTERY CHARGE UP USING AC ADAPTER

Connect the output USB plug of supplied 5V AC adapter to USB port **20** of charging cradle. Place the unit into cradle, the charge indicator **19** will light up blinking white. Adjust the position of unit in case the indicator does not light up. No matter the unit is switched on or not during charging, the segments within the battery status indicator 🔋 as shown on LCD will flash in turn when the battery is being charged. Once the battery is fully charged up (normally it takes 4 hours), the segments within the battery status indicator 🔋 will become full and stay steady and the charge indicator **19** will show steady white. Either you can take the unit out or keep placing it in the cradle will cause no damage to the battery. In the latter case, when the battery is being consumed and voltage falls to a certain level, the charging cradle will automatically start.
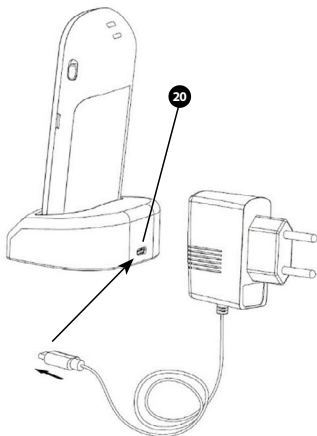
⚠️ **CAUTION:** BE SURE THE BATTERY IN THE UNIT IS RECHARGEABLE TYPE BEFORE PLACING IT IN THE CHARGING CRADLE, OTHERWISE EXPLOSION MAY RESULT. ONLY USE AC ADAPTER WITH 5V DC OUTPUT VOLTAGE TO CONNECT TO USB PORT, ADAPTER WITH OTHER HIGHER OUTPUT VOLTAGE WILL CAUSE DAMAGE TO THE UNITS.

4

SUCTION CUP
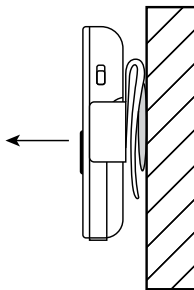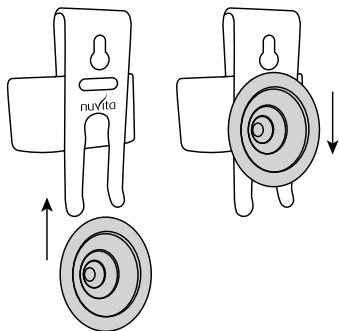
BELT CLIP

PAIRING

This process is to match the **PU** with **BU** so that they can communicate with each other while no other device (even baby monitor of identical model) can interfere with you or receiving your signal.

The **PU** and **BU** are already paired with factory pre-set code when they are shipped from factory. However, we recommend perform pairing in case interference is encountered or when extra **PU** is added to work with the **BU**.

1. Press and hold the up button **13** of **PU**.
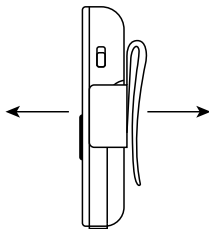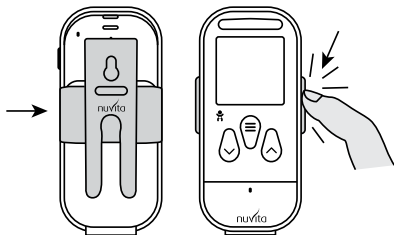2. Set the power **ON/OFF** switch **10** to **ON** position and wait until the LCD screen show a $\boxdot$ flashing, release up button **13**. Perform same to the extra **PU** which can be purchased separately.
3. Press and hold the up button **4** of **BU**.
4. Set the power **ON/OFF** switch **1** to **ON** position and wait until the LCD screen show a $\boxdot$ flashing, release up button **4**.
5. Now press up button **4** of **BU** again, if pairing is successful, two beep sound will be heard in **BU**. The $\boxdot$ in both LCD screen should show steady.
6. Switch **OFF** all units and switch them **ON** again, the baby monitor is now ready for operation.
7. In case the **PU** and **BU** cannot communicate with each other, repeat pairing process again.

    N.B. Every time you add a new PU to work with BU, perform pairing process again with ALL PUs and BU together.

OPERATION

BABY UNIT (BU)

1. Set the power **ON/OFF** switch **1** to **ON** position, the LCD will show up.
2. The temperature sensor inside unit detects the ambient temperature and its current reading is shown on the LCD screen of both **BU** and **PU**. The normal operating range of sensor is -19º C to + 50º C. Temperature outside this range will be shown as ▪▪▪ ▪▪▪ on the LCD screen. It is possible that the heat generated within the unit's electronic circuitry will affect the sensor, so the temperature reading may show 1 to 2 °C higher. Do not block the ventilation opening of sensor **7** at the back to ensure a correct temperature detection. In case there is a sudden big temperature change (e.g. you bring out the unit from indoor to outdoor during winter time), the sensor may need to take some time before it can settle to the new environment and show the correct reading on the LCD screen.

3. Place the **BU** about 1 m from the crib beyond the reach of baby with the microphone ❹ facing towards the baby.

4. Adjust the microphone sensitivity using the up down button ❸ ❹ such that the unit will be set to transmit whenever the microphone ❺ picks up a sound at your desirable loudness level. The mic sens bar graph in the LCD screen will also change correspondingly during adjustment. More segments of bar graph means the unit is more sensitive to sound. When the mic sensitivity is set to highest, the unit will operate under continuous transmission mode i.e. the unit will transmit no matter it detects baby sound or not. This is useful when parents want to listen to every small sound make by baby. Please note the mic sensitivity can also be set in menu of **PU**.

   N.B. In case the No Radiation function is set to ON, BU cannot be set to operate with continuous transmission mode.

5. Once **BU** is in transmit mode, the transmit icon 〈ᵠ〉 will be shown. The unit will return standby mode a few seconds after the microphone stops picking up any sound and the transmit icon 〈ᵠ〉 goes off.

6. The condition of battery is shown by the battery status indicator ▭. When battery power is being consumed, the segments within the indicator gradually diminish. Once the indicator becomes empty, it will start flashing. This battery status indicator is also shown on LCD screen of **PU** to allow parents monitoring the battery condition. When **BU** battery status indicator is empty, an alarm will be heard in **PU**.

7. **SETTING THE NIGHT LIGHT AND NO RADIATION FUNCTION.**

   Long press the **Menu/OK** button ❷ for 3 sec to entering setting mode. The night light icon ☿ will show flashing. Short press **Menu/OK** button ❷ to confirm you prefer to set this function, the temperature indicator starts flashing. Use the up/down button ❸ ❹ to select between ⌐ⁿ ⌐ᶠ or **VOX**, short press **Menu/OK** button ❷ to confirm your selection:

   ⌐ⁿ **(ON)** – Night light will be on all the time

   ⌐ᶠ **(OFF)** – Night light is turned off

   VOX – Night light will be on once **BU** detects baby's cry and goes off a few seconds after baby stops making sound.

   The corresponding night light icon ☿ or ☿ will show up on LCD of both **PU** and **BU**.

   Now the No radiation icon ⌦ will show flashing. Short press **Menu/OK** button ❷ to confirm you prefer to set this function, the temperature indicator starts flashing. Use the up/down button ❸ ❹ to select between ⌐ⁿ or ⌐ᶠ, press **Menu/OK** button ❷ to confirm your selection:

⌐⌐ **(ON)** means the no radiation function is enabled while ⌐F **(OFF)** means this function is disabled. When set to ⌐⌐, there is zero radiation from **BU** under standby mode but **PU** will not provide an alarm when it falls outside the communication range of **BU**. Besides, the **BU** room temperature will not show on **PU** LCD under standby mode.

The No radiation icon ☒ will show on LCD screen of both **PU** and **BU**.

Please note that these two functions can also be set in the menu of **PU**.

Now the menu exit icon ▐▶ will show flashing. Short press **Menu/OK** button ❷ to exit from setting mode and resume normal operation.

8. This baby monitor is equipped with Talk back and Music function so that parents can speak to baby or play music to comfort his/her emotion. Once these two functions are activated from **PU** side, the corresponding icon ◯ and 🎵 will show up on LCD. While **BU** is listening to parents or playing music, the speaker ❽ volume can be adjusted using the up/down button ❸ ❹. In case speaker ❽ is totally muted, the icon 🔇 will show up.

The music will be played for 20 min then stop by itself to avoid affecting baby sleep. In case BU again detects baby's cry continuously for over 10 sec, music will automatically start to play for another 20 min.

If parents talk back to baby while music is playing, the music will temporarily stop and baby can only hear the parent's voice. Once parents finish speaking, music will resume.

N.B. During music playing, it is recommended not to set the speaker volume too high or otherwise the baby's cry may not be noticeable from PU side.

9. Under standby mode, the LCD backlight will be turned off to reserve battery power. However, each time when a button is pressed, the LCD backlight will be on (5 sec) for easy viewing in the dark.

PARENT UNIT (PU)

1. Set the power **ON/OFF** switch ❿ to **ON** position, the LCD will show up.
2. Place the **PU** at a reasonable distance away from **BU** to avoid feedback. Too close a distance will create a screeching sound at the speaker.
3. Once the **PU** receives a signal, the LCD will become backlit and the sound level meter ⓰ will start flashing. The louder the baby's voice, the more number of LEDs will light up. This feature is useful in case the parents prefer to turn down the speaker ⓯ volume to keep the environment quiet while not missing the attention on baby.
4. The speaker volume can be adjusted using the up/down button ⓬ ⓭. The volume bar graph in the LCD screen also changes correspondingly during adjustment. More segments of bar graph shown means higher volume from speaker ⓯. When no segment is shown and the 🔇 icon appears, the speaker ⓯ is totally muted.
5. When the No radiation function is set to **OFF**, once the **PU** is beyond the communication range of the **BU** for over 30 sec, an alarm will be heard and Out-of-range icon 📶 will show flashing to alert the parents. Besides, the temperature reading will show ▪▪▪ ▪▪▪ °C. The alarm will only go off when the **PU** falls back within the communication range of **BU**.

   N.B. This alarm will also be heard in case the BU is switched off, or its battery has run down, or its power is cut off.

6. Whenever the baby's room temperature falls outside the range as prescribed by the high and low temperature limits, an alarm will be heard. Depending on whether the high or low limit is exceeded, the correspondingly icon 🌡❄🌡❄ and the current temperature reading start flashing in **PU** LCD.
7. The condition of the battery pack is shown by the battery status indicator 🔋. When the battery power is being consumed, the segments within the indicator gradually diminishes. Once the indicator becomes empty ▭, it starts flashing and an alarm will be heard, reminding the parents to charge up battery using the charging cradle.
8. The condition of the **BU** battery is also shown on LCD. Whenever the **BU** battery becomes run down, 🔋 starts flashing and an alarm will be heard.
9. It is possible for parent talking back to baby to soothe his/her emotion. Press and hold talk button ⓱, the talk back icon ◯ will show up on LCD. Speak towards microphone ⓮, release talk button ⓱ after finish speaking. It is worth noted that parent can talk back anytime they prefer, even when **BU** is transmitting.

10. Parent can also initiate music playing in **BU** to comfort baby to sleep. Enter menu setting mode to set this function.

11. **MENU SETTING**

a. 🎵 **Music playing**

Long press of **Menu/OK** button ⑪ for 3 sec to enter menu setting mode, the music icon 🎵 will show flashing, short press **Menu/OK** button ⑪ to confirm you prefer to set this function. The temperature indicator starts flashing. Use up/down button ⑫ ⑬ to select between ⌂F or 1, 2, 3, 4, 5, 6 or ⌂L , short press **Menu/OK** button ⑪ to confirm your selection:

⌂F **(OFF)** means music playing is turned OFF.

1 - 6 represents the different lullaby and nature sound which will be played repeatedly.

⌂L **(ALL)** means all lullaby and nature sound will be played sequentially

When music playing is activated, the music icon 🎵 will show up on LCD of both **PU** and **BU**.

b. ☼ **Night light**

Now the night light icon will show flashing, short press **Menu/OK** button ⑪ to confirm you prefer to set this function. The temperature indicator starts flashing, use up/down button ⑫ ⑬ to select between ⌂∏ ⌂F or VOX, short press **Menu/OK** button ⑪ to confirm your selection:

⌂∏ **(ON)** – Night light will be on all the time

⌂F **(OFF)** - Night light is turned off

VOX – Night light will be on once **BU** detects baby's cry and goes off a few seconds after baby stops making sound. The corresponding night light icon ☼ or ☼̣ will show up on LCD of both **PU** and **BU**.

N.B. Please note the Night light function can also be set in menu of BU.

c. ⌦ **No radiation function**

Now the No radiation icon ⌦ will show flashing, short press **Menu/OK** button ⑪ to confirm you prefer to set this function. The temperature indicator starts flashing, use up/down button ⑫ ⑬ to select between ⌂∏ or ⌂F, short press **Menu/OK** button ⑪ to confirm your selection:

⌂∏ **(ON)** means the No radiation function is enabled, there is zero radiation from **BU** under standby mode but **PU** will not provide an alarm when it falls outside the communication range of **BU**. Besides, the **BU** room temperature will not show on **PU** LCD under standby mode. The No radiation icon ⌦ will show up on LCD of both **PU** and **BU**.

⌂F **(OFF)** means this function is disabled.

N.B. Please note the No radiation function can also be set in menu of BU.

d. ⬙ **Vibration alert function**

Now the vibration icon ⬙ will show flashing, short press **Menu/OK** button ⓫ to confirm you prefer to set this function. The temperature indicator starts flashing, use up/down button ⓬ ⓭ to select between 🔛 or ⫍, short press **Menu/OK** button ⓫ to confirm your selection:

🔛 **(ON)** means the vibrator is activated and vibration icon ⬙ will show up on LCD. Whenever the received baby's voice is loud enough, **PU** will start to vibrate. This feature is useful when the parent is working under very noisy environment (e.g. vacuum cleaning). To save battery power, it is recommended not to use the vibration alert frequently.

⫍ **(OFF)** means the vibrator is deactivated.

e. 🌡❋ **Low temperature alarm setting**

Now the low temperature alarm icon 🌡❋ will show flashing, short press **Menu/OK** button ⓫ to confirm you prefer to perform this setting. The temperature indicator starts flashing, use up/down button ⓬ ⓭ to set the low temperature limit below which the unit will provide a temperature alarm. Each press of the button will cause the temperature to advance or retreat one step. Press and hold the up/down button ⓬ ⓭ will cause the temperature to scroll up or down rapidly. The allowed selectable range is -18°C to + 20° C. In case ⫍ is selected, no low temperature limit is set. Short press **Menu/OK** button ⓫ to confirm your setting.

f. 🌡❋ **High temperature alarm setting**

Now the high temperature alarm icon 🌡❋ will show flashing, short press **Menu/OK** button ⓫ to confirm you prefer to perform this setting. The temperature indicator starts flashing, use up/down button ⓬ ⓭ to set the high temperature limit above which the unit will provide a temperature alarm. The allowed selectable range is + 1°C to + 49° C. In case ⫍ is selected, no high temperature limit is set. Short press **Menu/OK** button ⓫ to confirm your setting.

g. 🔊SENS **BU mic sensitivity setting**

Now the mic sensitivity icon 🔊SENS will show flashing, short press **Menu/OK** button ⓫ to confirm you prefer to perform this setting. The temperature indicator starts flashing, use up/down button ⓬ ⓭ to select between the 11 levels, higher level means the **BU** mic is more sensitive to sound. Short press **Menu/OK** button ⓫ to confirm your setting.

N.B. Please note the BU mic sensitivity can also be set on BU side.

h. Now the menu exit icon ⏏ will show flashing, short press **Menu/OK** button ⓫ to exit and resume normal operation. During menu setting mode, in case there is no operation of any button for 20 sec, the unit will automatically exit from this mode and resume normal operation.

i. Under menu setting mode, use the up/down button ⓬ ⓭ to directly select the function you prefer to set (as indicated by the corresponding flashing icon), then short press the **Menu/OK** button ⓫ to confirm.

j. Under normal operation mode, each short press of **Menu/OK** button ⓫ can show settings of the various functions.

12. All audible alarms (out-of-range, high/low temperature and low battery) can be muted by short press of anyone button ⓫ ⓬ ⓭ ⓱. However, the corresponding icons still remain flashing on LCD until the condition is rectified.

13. Each time a button is pressed, a tone will be heard and the LCD backlight will be on (5 sec) for easy viewing in the dark.

14. Button feedback sound is set to ON by default. Long press down button ⓬ for 3 sec to mute button sound or long press up button ⓭ for 3 sec to activate button sound.

PRECAUTIONS

- Use only the supplied AC adaptors, use of other adaptors may cause damage to the 3070 baby monitor.
- When not using the monitor for a long period of time, remove all batteries from the **PU** and **BU** to avoid damage due to battery leakage.
- Disconnect the AC adapter from the wall outlet when the monitor is not to be operated.
- The 3070 is best performed within a temperature range of -19°C to +50°C.
- Do not open the cabinet, no serviceable parts inside.
- The 3070 should not be exposed to dripping, splashing and that no objects filled with liquids, such as vases shall be placed on it.
- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent.
- Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- The MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

SPECIFICATION

Operating frequency	862-870MHz
Modulation	GFSK with FHSS technique
No. of channels	57 with automatic search for free channels
Communication range	650m in open space
Operating temperature	-19° to +55° C
Power supply	3.7V Li 1250mAh rechargeable battery

BABY UNIT (BU)

Power output	20mW maximum
VOX microphone sensitivity	50 – 75 dB
Receiver sensitivity	-103 dBm
Standby current	10mA
Operating current	≤150mA
Standby operating time	95 hours

PARENT UNIT (BU)

Power output	20mW maximum
Receiver sensitivity	-103 dBm
Frequency response	300Hz – 3KHz
Standby current	10mA
Operating current	≤230mA
Standby operating time	95 hours

CHARGING CRADLE

Input voltage/current	5V DC 1A
Charging current	450mA
Time to full charge	4 hours

TROUBLE SHOOTING GUIDE

PROBLEM	POSSIBLE CAUSES	SOLUTION
BU has no transmission	- **BU** is switched off - Mic sensitivity is too low - Battery has run down	- Switch on **BU** - Adjust mic sensitivity higher using up button ❹ - Recharge battery using charging cradle
Always transmitting	- Mic sensitivity is too high - **BU** is set to operate with continuous transmission mode	- Adjust mic sensitivity lower using down button ❸ - Adjust mic sensitivity lower using down button ❸ so that **BU** operate with VOX
Out-of-range alarm always on	- Pairing is not successful - **BU** battery has run down - Distance between **BU** and **PU** exceeds the operating range	- Perform pairing again - Recharge battery using charging cradle - Move the **BU** and **PU** closer together
No Out-of-range alarm	- No radiation function is set to ON	- Change setting to OFF
Temperature alarm always on	- The high and low temperature limit is set too close to the current reading	- Set the high and low temperature limit around 5°C difference from current reading
Always showing low battery alert	- Battery has run down - Battery pack is damaged	- Recharge battery using charging cradle - Replace with new battery pack
Battery life is short	- Night light is permanently switched on - Vibration alert is switched on	- Switch off night light or set to VOX operate - Switch off vibration alert
Many static noise and interference	- Transmitter is located near other electrical appliances	- Remove the electrical appliances or re-locate the **BU** far away from source of interference
Too short communication range	- Many steel structures between **BU** and **PU** - **BU** battery has run down	- Re-locate **BU** or **PU** - Recharge battery using charging cradle
PU & **BU** cannot communicate with each other	- Pairing is lost	- Perform pairing process again with all the **BU** and **PUs** together

WARRANTY

TERMS & CONDITIONS

This product benefits of a warranty of 24 months on material and manufacturing defects, starting from the date of purchase (see sales slip).

The warranty of 24 months does not include damages caused by the usual use of parties identified as "consumable" (e.g., batteries, brush heads or parts subject to usury).

The legal guarantee of 24 months is void if:
1. The product has undergone aesthetic damage due to improper use not in accordance with instructions in the manual.
2. This product has been modified and/or tampered with.
3. The cause of the failure was due to poor maintenance of the individual components and/or accessories and/or supplies (e.g. oxidation and/or scaling due to the retention of water or other liquids, sediment blocking the sensor, leak of corrosive liquid from batteries).

The following is excluded from the legal guarantee of 24 months:
1. Costs related to replacements and/or repair of parts subject to wear or costs for ordinary maintenance of the product.
2. The costs and risks involved in transporting the product to and from the store where you purchased or otherwise authorized collection centre to receive the products under warranty.
3. Damage caused by or resulting from improper installation or improper use not in accordance with the directions in the instruction manual.
4. Damage due to natural disasters, accidental events or adverse conditions not compatible with the product.
5. Defects that have a negligible effect on product performance.

The manufacturer, distributor and all the parties involved in the sale do not assume any liability for losses and economic damage from any malfunction of the product. In accordance with current regulations the manufacturer, distributor and all the parties involved in the sale are not responding in any case for damages, including direct, indirect ones, loss of net income, loss of savings and additional damage and other details consequences going beyond the damage caused by the breach of warranty, contract, strict liability, wrongdoing or due to other causes, resulting from the use or inability to use the product and/or paper and electronic documents, including the lack of service.

For further information on the help service visit the website **www.nuvitababy.com**

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