

Contents

1. Description of device	27
1.1 Proper use	27
1.2 Description of function	27
1.3 Approval	27
1.4 Contents of package	28
2. Safety information	28
2.1 General information	28
2.2 Protection against electric shock	28
2.3 For your child's safety	28
2.4 Protection from injury	29
2.5 Damage to the product	29
2.6 Using LiPo rechargeable batteries	29
3. Components of the baby monitor	30
3.1 Overview of messages and displays	31
4. Starting the device	33
4.1 Connecting the parent unit	33
4.2 Connecting the baby unit	33
4.3 Connecting baby unit and parent unit	33
4.4 Power supply	34
4.5 Eco-Mode and FULL-ECO-CONTROL	35
5. Operating the baby unit	36
5.1 Switching the baby unit on and off	36
5.2 Indicator LEDs	36
5.3 Lullabies	36
5.4 Nightlight	37
5.5 Call function of parent unit	37
6. Operating the parent unit	37
6.1 Switching the parent unit on and off	37
6.2 Indicator LEDs	37
6.3 Information on the display	38
6.4 The time display and setting the clock	39
6.5 Adjusting the volume control	39
6.6 Mute setting	39
6.7 Setting the vibrating alarm	40
6.8 Using the VOX function to adjust the transmission sensitivity	40
6.9 Talking to your baby	41
6.10 Lullabies	41
6.11 Nightlight	42
6.12 Room temperature	42
6.13 Torch	43
7. Cleaning and care	43
7.1 Cleaning	43
7.2 Changing the battery	43
8. Faults and how to remedy them	44
9. Technical data	45
9.1 FHSS Technology	45
9.2 Using several babyphones	45

10. Disposal	46
10.1 Equipment	46
10.2 Packaging	46
10.3 Disposable/rechargeable batteries	46
11. Warranty	46
11.1 Service Centres NUK	47
11.2 Service Centres Babyphone	47
11.3 Supplier	47
12. Declaration of conformity	47

1. Description of device

1.1 Proper use

This baby monitor Eco Control Audio 530D allows you to listen in to your baby or small children in the nursery. It can also be used for sound-only monitoring of the elderly.

This device is intended only for dry environments. It is not suitable for use in wetrooms or outdoors in wet weather.

This device is intended for use in private households. It is not intended for commercial use.

This device is intended as a supplementary aid. It is in no way a substitute for the physical presence and attention of parents, babysitters or caregivers.

1.2 Description of function

The baby unit **1** is set up in the room that is to be monitored. It registers the sounds in the room and sends it wirelessly to the parent unit **12**.

The parent unit **12** has a built-in rechargeable battery so that you can always set it up where you can see it. The battery is recharged using the supplied mains adapter.

The limiting distance between baby and parent unit is about 40 m indoors and up to 250 m outdoors (in open country). The babyphone's reception will vary depending on its surroundings. Thick walls or metal can reduce the range.

The babyphone has an Eco-Mode, in which the transmitter (baby unit) automatically switches to standby as soon as your baby is

sleeping peacefully. Depending on the sensitivity setting, it will not switch back on until your baby begins making a noise or starts to cry.

If you want to be sure of hearing every single sound from the nursery you can use the **VOX 22** button to set the transmission sensitivity to its maximum (=level 5). On this setting the baby unit is continually switched on (see "6.8 Using the VOX function to adjust the transmission sensitivity" on page 40).

If you do not want to hear any sounds at all you can use the **Vol - 16** button to set the volume to mute. In this case **only** the LED display **21** will show you if your baby is making noise. You can alternatively use the vibrating alarm to alert you (see "6.7 Setting the vibrating alarm" on page 40).

Activating Eco-Mode minimises the high-frequency radiation in the children's room. In this mode the baby unit merely sends a brief signal to the parent unit every 30 seconds to test the connection. If the parent unit is out of range, the parents will be alerted by a beep.

You will find more information about Eco-Mode in "4.5 Eco-Mode and FULL-ECO-CONTROL" on page 35.

1.3 Approval

The baby monitor operates at a frequency of 2.4 GHz. This device may be used in all EU countries. In Russia and Ukraine you should comply with the specific national restrictions.

1.4 Contents of package

- Baby monitor:
 - 1 baby unit (for the nursery)
 - 1 mains adapter for the baby unit
- 1 parent unit
- 1 mains adapter for the parent unit
- 1 3.7 V LiPo battery, 1200 mAh
- 1 User Manual

2. Safety information

2.1 General information

- Please read these operating instructions carefully before using the device. These instructions form part of the device and must be kept to hand at all times.
- The device should only be used for the intended purpose, as described (see "1.1 Proper use" on page 27).
- Use only accessories supplied with the device or expressly permitted in these instructions.
- Each time you use the device, first check that it is working properly. As well as checking the range and the connection, we recommend always checking that the device is audible when in use.
- These devices may be used only for the transmission of sound within your personal environment. Everybody in a room that could be overheard must be informed that you are using the device.
- Please note that transmission will always depend on the surroundings. Electronic devices, insulation, walls, moisture or trees can seriously interfere with reception.

2.2 Protection against electric shock



Warning! The following safety instructions are intended to protect you from electric shock.

- Do not attempt to repair the device yourself. The device may be opened only by qualified technicians.
- The device may not be used if it is damaged.

- If you are travelling, please always make sure that the available voltage matches that given in the technical data.

2.3 For your child's safety



Warning! Children cannot recognise the dangers associated with using such devices. They should therefore be kept away from them.

- Make sure that the unit and its accessories are always kept out of baby's reach. The unit and its accessories should always be at least 1 m away.
- Children are often poor judges of hazard and are liable to injure themselves. You should therefore note:
 - This device is not designed to be used by people (including children) with physical, sensory or mental disabilities or with insufficient experience and/or knowledge, unless a person responsible for their safety is supervising them or instructing them on how to use the device.
 - Children should be supervised to ensure that they cannot play with the device.
 - Make sure that the plastic packaging does not become a lethal trap for children. There is a risk of suffocation. Plastic packaging is not a toy.
 - To avoid the possibility of strangulation, the power cable must always be out of baby's reach.
- Use the unit only to give you additional safety. It can never serve as a substitute for a human carer.

2.4 Protection from injury



Warning! Follow the instructions below to prevent injuries.

- Make sure the power supply cable is tucked away neatly to prevent anyone from tripping over it.

2.5 Damage to the product

Caution! To prevent material damage, follow the instructions below.

- Do not expose the device to direct sunlight or extreme heat as UV rays and overheating may make the plastic brittle and the electronics could become damaged.
- The baby monitor should not be placed near to a source of heat and the device should also not be covered, to prevent it overheating.
- Never use the baby monitor in damp or wet surroundings.
- Never use the baby monitor in dusty surroundings. This could shorten the life of the device.
- Never use sharp or abrasive cleaning agents as these could damage your device.
- While the devices are not in use, always switch them off with the On/Off button **8** on the parent unit and the On/Off button **19** on the parent unit.

2.6 Using LiPo rechargeable batteries



Warning!

To avoid potential hazards that could cause injuries or damage the equipment, always note the following:

- Avoid short circuits.

The battery poles should never be allowed to come into contact with any metal objects, as this could cause a short circuit. A short circuit can cause the

battery to overheat, in which case it could leak electrolyte and possibly cause an explosion or fire.

If electrolyte does leak out, avoid any contact with skin, eyes and mucous membranes in order to prevent injuries. In the event of any contact with the electrolyte, rinse the affected areas with plenty of clean fresh water and immediately seek medical attention.

- The built-in battery may be replaced only by a genuine replacement battery. If the battery is defective, please contact one of our service addresses (see "Contact addresses NUK" on page 142).
- To avoid the risk of explosion, normal batteries should not be recharged, heated up or disposed of by incineration.
- Never try to open the battery, bend the contacts or pull them off. Do not throw the battery onto the floor or knock nails into it.

Damaging the battery could cause an internal short circuit, in which case it could leak electrolyte and possibly cause an explosion or fire.

- Use only the supplied mains adapter to charge the battery.

Using the wrong mains adapter could overcharge it, causing it to overheat and explode.

- LiPo batteries may be charged or stored only on heatproof, non-combustible surfaces.
- LiPo batteries may be charged only under supervision so that you can intervene in good time in the event of a failure.
- LiPo batteries contain toxic substances. For this reason always observe the regulations for its disposal given in "10.3 Disposable/rechargeable batteries" on page 46.

3. Components of the baby monitor

- 1 Baby unit**
- 2** Temperature sensor (inside the housing, so not visible)
- 3 Speaker**
 - enables you to talk to your baby.
- 4** Mains adapter socket
- 5** Nightlight
- 6** Microphone
- 7 Lullabies on/off button**
 - brief press: Switch lullabies on or off
 - long press: select the next song
- 8 On/Off button:**
 - brief press: switches on;
 - long press: switches off.
- 9 Nightlight on/off button/ Call function of parent unit**
 - brief press: Switch nightlight on or off
 - long press: Activate call function of parent unit
- 10 Power LED**
 - lights up green when the baby unit is switched on.
- 11 VOX LED**
 - lights up green when it has set up a connection to the parent unit;
 - goes out if the connection to the parent unit is interrupted, the device is switched off or is in Eco-Mode.
- 12 Parent unit**
- 13** Torch
- 14** Battery cover
- 15 The Vol + button**
 - increases the volume.
- 16 The Vol - button**
 - reduces the volume.
 - Switches to mute on the lowest setting. Sounds are then indicated only by the LEDs **21**.
- 17** Display
- 18 Connection indicator**
 - lights up green when there is a connection;
 - flashes green while there is a connection, Eco-Mode is active and your baby is asleep;
 - lights up red if the connection is lost.
- 19 On/off button**
- 20 The power supply indicator POWER**
 - lights up green: the device is switched on and the battery is fully charged;
 - flashes green: the battery currently being charged;
 - lights up red and beeps at one minute intervals: low battery warning. Within about 15 – 20 minutes the parent unit will switch off automatically.
- 21 Indicator LEDs**
 - indicates the noise level in the nursery. The more LEDs are lit, the louder are the noises;
 - indicates the different levels when you are adjusting the volume. The more LEDs are lit, the louder will be the sound from the loudspeaker;
 - indicates the different levels when you are adjusting the VOX sensitivity. The more LEDs are flashing, the sooner the device will react to sounds. If 5 LEDs are lit the device will switch to continuous transmission.
- 22 Press the VOX button**
 - press briefly and use **Vol +/-** to set the transmission sensitivity.
- 22 VOX and vibrating alarm on/off button**
 - brief press, to use **Vol +/-** to adjust the VOX setting;
 - long press: Switch vibrating alarm on or off.
- 23 Lullabies on/off button**
 - brief press: Switch lullabies on or off;
 - press and hold the button to play the next song.
- 24 Hold down the TALK button**
 - Holding down this button activates the function “talk to baby”;



TALK

- while the baby unit is in Eco-Mode, the talk-back function is disabled and this is indicated by two consecutive beeps.

26 Mains adapter socket

27 Microphone

28 Speaker

25 Nightlight on/off and Torch on/off button










- brief press: Switch nightlight on or off;
- long press: Switch torch on or off.





3.1 Overview of messages and displays

Baby unit		
Light	Display	Meaning
Power-LED 10	green	Baby unit is switched on
VOX LED 11	green	Link ok (non Eco-Mode)
	OFF	Link ok (Eco-Mode)
		Link not ok

Parent unit		
Light	Display	Meaning
Connection indicator 18	green	Link ok (non Eco-Mode)
	green blinking	Link ok (Eco-Mode)
	red blinking 1 beep every 30 s	Link not ok
Power-LED 20	green	The parent unit is switched on and the battery is fully charged
	red 1 beep every 60 s	Low battery warning. The parent unit will switch off with the next 15 min without additional warning.
	green blinking	Charge battery indicator
Indicator LEDs 21	1 - 5 LEDs blinking	Sensitivity (VOX) setting. The more LEDs are flashing, the sooner the device will react to sounds. If 5 LEDs are lit the device will switch to continuous transmission.
	1 - 5 LEDs One beep per button press	Volume regulation. The more LEDs are lit, the louder will be the sound from the loudspeaker.
	1 - 5 LEDs	Visual baby sound indication. The more LEDs are lit, the higher is the noise level in the nursery.
Display 17	TALK lights up and beeps once	Talk-back function is activated. You can use the microphone to talk to your baby.

Parent unit		
Light	Display	Meaning
Display 17	TALK flashes and beeps twice	Eco-Mode has been activated. Your baby is very probably asleep. That is why the talk-back function has been deactivated.
	 lights up	Lullaby is being played.
	 flashes rapidly	Lullabies on/off button 23 was held down. The next song is played.
	 flashes slowly	Eco-Mode has been activated. Your baby is very probably asleep. That is why the lullaby function has been deactivated.
	 lights up	Vibrating alarm has been activated
	21.3 °C	Shows the temperature in the nursery: below 10 °C: the display flashes LO 10 °C to 15 °C: flashes the displayed temperature 15 °C to 30 °C: Shows the temperature 30 °C to 35 °C: flashes the displayed temperature over 35 °C: the display flashes HI
	14:38	Shows the time
		Shows the battery's charge state. The more bars you can see the higher the charge in the battery.
	 flashes	Battery power is extremely low. The device will shortly switch itself off.
	 flashes and bars run across the display	The parent unit is connected to mains power and the battery is being recharged.
	 lights up	Nightlight has been activated
	 flashes	Eco-Mode has been activated. Your baby is very probably asleep. That is why the nightlight function has been deactivated.

Parent unit		
Light	Display	Meaning
Display 17		Shows the selected volume level. The more bars you can see the higher the selected volume
		Loudspeaker symbol with no bars: The device is muted.

4. Starting the device

Note: Always connect the cables before inserting the mains adapter into the socket.

4.1 Connecting the parent unit

The parent unit is powered by the supplied rechargeable LiPo battery. This can be charged using the supplied mains adapter.

Caution! To prevent malfunctions, first insert the battery into the parent unit and then connect the mains adapter to the parent unit.

1. Remove the battery cover **14** on the back of the parent unit **12**, by sliding it downwards.
2. Put the battery in its compartment as indicated on the unit. Make sure you insert it with the correct polarity (+ and -).
3. Slide the battery cover **14** back onto the parent unit **12**.
4. Insert the small plug of the mains adapter into the mains adapter socket **26** of the parent unit.
5. Insert the plug into a power socket that matches the rating given in the technical data (see "9. Technical data" on page 45).
6. Initially, charge the parent unit continuously **for 10 hours** to activate the full battery capacity (see "4.4 Power supply" on page 34).

4.2 Connecting the baby unit

Note: Don't install the baby unit **1** until the battery of the parent unit **12** is fully charged.

1. Put the baby unit **1** somewhere in the nursery where your baby will not be able to reach it.

An optimal distance between baby and the baby unit is from 1 to 2 m.

Note: Since the temperature sensor is inside the baby unit it is important that you do not cover it or place it near any heat source. Direct sunlight may also affect the reading.

2. Insert the mains adapter plug into the socket **4** of the baby unit **1**.
3. Insert the plug into a power socket that matches the rating given in the technical data (see "9. Technical data" on page 45).

4.3 Connecting baby unit and parent unit

1. Use the On/Off button **8** to switch the baby unit **1** on. Keep the button pressed for a moment until the Power LED **10** lights up.
2. Use the On/Off button **19** to switch the parent unit **12** on. Keep the button pressed for a moment until the LED **20** lights up green.

The connection will be set up automatically. While this is being done the connection indicator **18** will light up red.

As soon as the connection has been established, the connection indicator on the parent unit **18** and the VOX LED on the baby unit **11** will light up green.

If the connection indicator **18** begins to flash green, this means that there is a connection between the parent unit and the baby unit, but your baby is currently asleep and therefore the device has automatically activated Eco-Mode to reduce the high-frequency radiation in the children’s room and save energy.

In the event that the connection between the parent unit and the baby unit breaks down, the devices will automatically attempt to establish a new one.

If a new connection is not established within 30 seconds, the parent unit **12** will emit a regular beep and the connection indicator **18** will light up red. You may need to move the parent unit to a different location before a new connection can be established.

3. First go and check on baby to make sure everything is OK.
4. Then try to set up a new connection by moving about.

The connection will be automatically re-established as soon as you are within range.

As soon as the connection has been set up the connection indicator **18** will again light up green.






4.4 Power supply

- The power supply for the baby unit **1** works only via the mains adapter.
- The parent unit **12** can be operated using the battery with no mains connection for up to 18 hours.

Displays

The level of charge in the battery is indicated by the LED **POWER 20**. While the parent unit is switched on, its level of battery charge is

indicated by the additional battery symbol in the display:

 <p>LED 20 is green and continuously on</p>	Battery is fully charged
 <p>LED 20 is green and continuously on</p>	Battery is partially charged
 <p>LED 20 is red and continuously on Beeps at one minute intervals</p>	Battery is almost empty. Depending on how it is being used, the device will automatically switch off within the next 15-20 minutes. We therefore recommend you to connect the device to the mains supply in order to recharge the battery.
 flashes <p>LED 20 flashes red Beeps at one minute intervals</p>	The battery is empty and the device will switch itself off almost immediately.
 <p>Bars run across the display LED 20 flashes green: The device is connected to mains power and the battery is being recharged. The animation stops as soon as the battery is fully charged, but the LED continues to flash while the device is connected to mains power.</p>	

Charging the parent unit

The parent unit **12** can be connected to the mains supply and is then powered via the mains adapter. This charges the battery at the same time.

Notes:

- The time needed to recharge the battery and its operating time both depend on how intensively the parent unit is being used. The battery can normally be recharged in about 5 hours, but it will take longer if the device is switched on at the same time. Similarly, the operating time of up to 18 hours will be reduced if you use the talk-back function or choose a high volume setting.
- Charging the battery for the very first time takes about 10 hours.
- Subsequently recharging the depleted battery takes about 5 hours.
- With a fully charged battery, you can operate the parent unit for up to 18 hours.

4.5 Eco-Mode and FULL-ECO-CONTROL

Description of function

This babyphone has an Eco-Mode function that not only saves power but also minimises the high-frequency radiation in the nursery. In this mode, transmissions between the parent unit and baby unit are restricted.

The device automatically switches to transmission mode as soon as your baby makes a noise that exceeds your selected sound threshold (VOX levels 1 - 4).

You can see when Eco-Mode has been activated because the connection indicator **18** flashes green. You can see when Eco-Mode has been deactivated because the indicator shows a steady green light.

Activating Eco-Mode

At VOX levels 1, 2, 3 and 4, (see "6.8 Using the VOX function to adjust the transmission sensitivity" on page 40) Eco-Mode is activated automatically as soon as the device registers no sounds from your baby for over 10 seconds. As soon as baby does make a sound that exceeds your specified noise threshold (VOX level 1-4), Eco-Mode

will automatically be deactivated and all the sounds will be transmitted in the usual way.

Range check in Eco-Mode

The function FULL-ECO-CONTROL guarantees that you are always connected to your baby. Even when Eco-Mode is activated, to ensure that the two devices remain in contact, the baby unit checks every 30 seconds that the parent unit is still nearby (link check). If at any time you are out of range, this is indicated on the parent unit by changing the colour of the LED **18** to red and beeping.

Note: Check the range of your babyphone before using Eco-Mode. Make sure that the two units are always within range, so that you can hear your baby.

Information displayed in Eco-Mode

Connection indicator 18	Significance
lights up green	There is a normal connection between the parent unit and the baby unit
flashes green	Eco-Mode has been activated
lights up red and beeps once	Either there is no connection between the parent unit and the baby unit, or the parent unit is out of range.

Special features of Eco-Mode

Eco-Mode reduces the high-frequency radiation from the baby unit to an absolute minimum. This means that your baby is not continually exposed to radiation that is unnecessary during quiet sleep.

This also means that in Eco-Mode the babyphone uses much less energy.

The nightlight, lullaby and talk-back functions are temporarily deactivated in Eco-Mode: while your baby is asleep these functions would disturb him/her.

The nightlight and the lullabies can be switched on in Eco-Mode only after a delay. If you press the corresponding button in Eco-Mode, you will initially see a flashing symbol (musical note or lightbulb) on the display of the parent unit. This indicates that the selected function could disturb your baby. You now have up to 30 seconds to press the button again to leave the function disabled. Otherwise, as soon as the next link check is carried out, the function will be executed and the nightlight or lullabies will switch on automatically.

The talk-back function is deactivated in Eco-Mode. If you try to use the talk-back function in Eco-Mode, the flashing symbol appears in the display and a double beep signals that this function is deactivated.

Sound transmission in Eco-Mode

In Eco-Mode, no sounds are transmitted that fail to reach the specified noise threshold (see "6.8 Using the VOX function to adjust the transmission sensitivity" on page 40).

The device automatically switches to transmission mode as soon as your baby makes a noise that exceeds your selected

sound threshold (VOX levels 1 - 4). Eco-Mode is deactivated immediately and the connection indicator **18** stops flashing and remains continuously lit.

At VOX level 5 the device transmits continuously and Eco-Mode is deactivated.

If you want to check that everything is OK while Eco-Mode is activated (although this already indicates that your baby is sleeping peacefully), you can deactivate Eco-Mode by switching to permanent transmission mode:

1. press the **VOX** button **22** on the parent unit **12**.
2. Then hold the **Vol +** button **15** down until all 5 LEDs **21** are lit.

Notes:

- It can take up to 30 seconds to deactivate Eco-Mode.
 - If you switch over to continuous transmission mode, the device will not automatically revert to Eco-Mode.
3. To return to Eco-Mode, press the button **VOX 22** on the parent unit, and then repeatedly press **VOL - 16** until only from 1 to 4 LEDs **21** are lit.

5. Operating the baby unit

5.1 Switching the baby unit on and off

The baby unit **1** will switch on automatically as soon as you have connected the mains adapter and plugged it into the power supply. You can subsequently switch the baby unit on or off at any time:

- To switch the baby unit **1** on or off, press the On/Off button **19**.

5.2 Indicator LEDs

- The Power LED **10** lights up green while the baby unit is switched on.
- The VOX LED **11** on the baby unit lights up green when there is an established connection between it and the parent unit.

- The VOX LED **11** will not be lit while the baby unit **1** is switched to Eco-Mode or if it was not possible to set up a connection to the parent unit.

5.3 Lullabies

This NUK babyphone has four especially composed lullabies and soothing natural sounds to help you soothe your baby and lull it to sleep.

1. To activate the lullabies on the baby unit **1**, press the **Lullabies on/off** button **7**.

Note: The lullabies can also be activated from the parent unit **12** (see "6.10 Lullabies" on page 41).

2. You can change the current song by holding down the **Lullabies on/off** button **7**. This automatically goes on to the next song.

The previously selected lullaby will play in a loop for about 20 minutes and will then automatically switch off.

5.4 Nightlight

The baby unit's soft nightlight helps your baby recognise things in the dark room, which it finds soothing.

- You turn the nightlight on or off by briefly pressing the **Nightlight on/off** button **9**.

Notes:

- If you press and hold the **Nightlight on/off** button **9**, this activates the Paging function (see "Call function of parent unit" on page 37).
- The nightlight can also be activated from the parent unit **12** (see "6.11 Nightlight" on page 42).

5.5 Call function of parent unit

If you misplace the parent unit and are unable to find it, you can use the "Paging" function to search for it.

1. You activate the function by holding down the **Nightlight on/off** button **9**.

When the function has been activated, the baby unit will beep once and the parent unit will then begin to emit a continuous series of beeps that will enable you to locate it.

Notes:

- The parent unit emits these beeps at the volume you previously selected (see "6.5 Adjusting the volume control" on page 39). If the volume is set to its lowest level, then the beeps will also be extremely quiet.
- If the parent unit is muted then it will not emit any beeps; and the baby unit will emit a double beep to indicate this:
one beep: Search function has been activated
two beeps: the search function cannot be activated because there is currently no connection to the parent unit. The parent unit is either switched off, or out of range, or currently muted.

2. You turn the function off either by again pressing and holding the **Nightlight on/off** button **9**, or by pressing any of the buttons on the located parent unit.

6. Operating the parent unit

6.1 Switching the parent unit on and off

To switch the parent unit **12** on or off, press and hold the On/Off button **19**:

- when you hear a beep and the **Power LED 20** lights up, the parent unit is switched on;
- when you hear a beep and the **Power LED 20** goes out, the parent unit is switched off.

6.2 Indicator LEDs

- The connection indicator **18** on the parent unit **12** shows the state of the connection to the baby unit **1**. It:

- lights up green when it has a connection;
- flashes green when the baby unit is in Eco-Mode and indicates that your baby is sleeping peacefully;
- lights up red if the connection has broken down or the baby unit is switched off.

Notes:

- If the baby unit **1** is in Eco-Mode and the parent unit moves out of range, the connection indicator **18** will light up red. You will also hear a beep every 30 seconds.

- As soon as the parent unit **12** comes back into range, or the reason for the breakdown in communications is eliminated, the connection indicator **18** lights up green again indicating that the units are able to communicate.
- When the units are first switched on, the connection indicator **18** will initially be red. The parent unit and baby unit will set up a connection. As soon as the connection is set up the display will turn green.
- The power supply indicator POWER **20**:
 - lights up green: the device is switched on and the battery is fully charged;
 - flashes green: the battery currently being charged;
 - lights up red and beeps at one minute intervals: low battery warning. Within about 15 – 20 minutes the parent unit will switch off automatically. Please be aware that this interval may be reduced, depending on how you use the device (for example, VOX level 5 uses more power than level 1).
- The display **21** with the 5 LEDs has three functions. The LEDs are only visible when in use.
 - indicates the noise level in the nursery. The more LEDs are lit, the louder are the noises;
 - indicates the different levels when you are adjusting the volume. The more LEDs are lit, the louder will be the sound from the loudspeaker;
 - indicates the different levels when you are adjusting the VOX sensitivity. The more LEDs are flashing, the sooner the device will react to sounds. If 5 LEDs are lit the device will switch to continuous transmission.




6.3 Information on the display



The display **17** is illuminated and lights up automatically as soon as you perform any operation on the parent unit **12**.

To save power, the light will automatically go out if you perform no further operations for a period of 30 seconds.

The display **17** shows you the following information:



- The TALK symbol is visible only while the talk-back function is active (see "6.9 Talking to your baby" on page 41). **TALK**
- The musical note symbol will be visible only if lullabies have been activated from the parent unit (see "6.10 Lullabies" on page 41) or baby unit (see "5.3 Lullabies" on page 36). 
- The vibration symbol can be seen on the display **17** only if you have activated the vibrating alarm (see "6.7 Setting the vibrating alarm" on page 40). 
- The lightbulb symbol will be visible only if the nightlight has been activated from the parent unit (see "6.11 Nightlight" on page 42) or baby unit (see "5.4 Nightlight" on page 37). 
- The display always shows the room temperature and is updated automatically (see "6.12 Room temperature" on page 42). **21.3 °C**
- The time can be set up by hand and is then permanently displayed (see "6.4 The time display and setting the clock" on page 39). **14:38**

- The battery symbol is also always displayed and shows the battery's current charge level (see "4.4 Power supply" on page 34). 
- The loudspeaker symbol always shows you the device's current volume setting (see "6.5 Adjusting the volume control" on page 39 and "6.6 Mute setting" on page 39). 
VOL
If no bars are shown, then the device is currently muted (see "6.6 Mute setting" on page 39).

6.4 The time display and setting the clock

1. To set the clock, simultaneously hold down the volume **VOL + 15** and **VOL - 16** buttons for at least 3 seconds.

The time display will flash.

2. Use the **VOL +** button **15** to set the hours.
3. Use the **VOL -** button **16** to set the minutes.

When you have set up the desired time on the display, wait a few seconds until it stops flashing. This means that your setting has been stored.

Note: In the event of a power failure you may need to set up the time afresh.

6.5 Adjusting the volume control

- You can use the **VOL + 15** and **VOL - 16** buttons to set the volume at which you hear the sounds emitted by the parent unit.

Each time you press one of the buttons you will hear a beep at the volume that is currently set and the corresponding LEDs **21** will be illuminated. The louder your chosen setting, the louder will be any beeps and the more LEDs will light up.

The display also shows a number of bars indicating the current volume setting. The louder your chosen setting, the louder the unit will beep and the more bars will appear.




Note: When the VOX function is set to low sensitivity (see "6.8 Using the VOX function to adjust the transmission sensitivity" on page 40), then quiet sounds will not be transmitted regardless of the volume setting. This means that turning up the volume will not enable you to hear anything more. If you want to hear more of the sounds from the nursery you will need to increase the transmission sensitivity by selecting a higher VOX level.

6.6 Mute setting

The parent unit can be "MUTED". Sounds from the nursery will then no longer be transmitted.

1. Press the **VOL - 16** button repeatedly until no more beeps are heard.

No further sounds will be transmitted.

The display **17** shows the loudspeaker symbol with no bars. 

The LEDs **21** will continue to indicate the noise level in the nursery. The more LEDs are lit the louder are the noises in the nursery.

2. You can cancel the mute setting by pressing the **VOL + 15** key.
3. If the parent unit is muted and you activate the talk-back function, the volume will automatically return to the first level.
4. If you have activated the vibrating alarm and muted the parent unit, then if your baby cries loudly you will be alerted by the vibration as well as the LED display **21**.

Caution!

If you mute the parent unit and also activate the lullabies then you will no longer have any

active monitoring function. The five LEDs that display the volume **21** are switched off while a lullaby is playing. If you also mute the device then you will neither be able to hear your baby nor see the level of noise in the nursery. We therefore recommend that you always leave at least one transmission active.

6.7 Setting the vibrating alarm

The parent unit is equipped with an integrated vibrating alarm function. The parent unit will vibrate:

- if there is a high level of noise in the nursery;
- when the battery charge becomes low;
- if the parent unit goes out of range.

1. You activate the vibrating alarm by holding down the **Vibrating alarm on/off** button **22** for at least 3 seconds.

The vibrating alarm symbol appears in the display **17** to show that the alarm is active, and the device will vibrate once to confirm the activation.



The vibrating alarm is triggered only by very loud noises when four or five LEDs light up on the display **21**.

2. You switch the vibrating alarm off by again holding down the **Vibrating alarm on/off** button **22** for at least 3 seconds.

This will prompt a brief vibration and the vibrating alarm symbol will disappear.

6.8 Using the VOX function to adjust the transmission sensitivity

Babies make a lot of different noises. These can range from loud breathing through babbling to calling or loud crying. The VOX function can be set up in such a way that only loud sounds such as crying or calling are transmitted while quieter sounds are not registered.

The VOX function sets up the transmission sensitivity of the microphone. The higher the

VOX level the more sensitive the device is to noises.

1. You activate the VOX function by briefly pressing the **VOX** button **22**.

The LEDs **21** indicate the sensitivity of the current setting by flashing.

2. You can increase or decrease the transmission sensitivity by pressing one of the **VOL + 15** or **VOL - 16** buttons. The number of flashing LEDs **21** corresponds to the selected level:

- VOX level 1 = extremely low sensitivity, reacts only if baby screams very loudly;
- VOX level 2 = low sensitivity, reacts if baby screams loudly;
- VOX level 3 = normal sensitivity, reacts if baby cries normally;
- VOX level 4 = high sensitivity, reacts even to slight sounds;
- VOX level 5 = Eco-Mode is switched off. The unit is set to transmit continuously.

You can set up the volume at which the parent unit should output the transmitted sounds using the two **VOL + 15** and **VOL - 16** buttons (see "6.5 Adjusting the volume control" on page 39).

Note: After activating the VOX function, you have about two seconds to alter the transmission sensitivity. The device will then automatically switch back to transmitting sounds. You can see this has happened because the LEDs **21** will no longer be flashing, and the **VOL + 15** and **VOL - 16** buttons now only modify the volume.

Caution! In continuous transmission mode at VOX level 5, all sounds are transmitted continuously. When the baby is sleeping peacefully, the volume is automatically reduced to its lowest level after a few seconds to minimise background noise. As soon as the child begins to make a noise, the volume automatically returns to its previous setting.

6.9 Talking to your baby

You can use the “Talk back” function to speak to your baby.

1. Hold down the **TALK 24** button on the parent unit.

The display **17** shows the **TALK** symbol.

2. At the same time, speak into the microphone **27** on the parent unit.

Your baby can now hear your voice from the loudspeaker **3** on the baby unit.

3. Release the **TALK 24** button in order to hear the baby’s reaction.

The TALK symbol disappears.

Notes:

- If the baby unit **1** is in Eco-Mode, this function is deactivated so that you do not inadvertently wake your baby. In this case, two consecutive beeps will remind you that the talk-back function is currently not available.

The display **17** shows a flashing TALK symbol.



- If the volume of the parent unit is set to “MUTE” (see “6.6 Mute setting” on page 39), it will automatically be increased to level 1 as soon as you press the **TALK 24** button.

6.10 Lullabies

To soothe baby to sleep, you can play lullabies on the loudspeaker **3** of the baby unit.

Note: You can alternatively switch the lullabies on and off from the baby unit itself (see “5.3 Lullabies” on page 36).

The previously selected lullaby will play in a loop for about 20 minutes and the “Lullaby” function will then automatically switch off.

1. You activate the function by briefly pressing the **Lullabies on/off** button **23**.

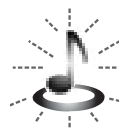
The first song will be played and at the same time the musical note symbol will appear on the display **17** of the parent unit.



A choice of four different lullabies and one track of natural sounds are available.

2. You switch to the next song by holding down the **Lullabies on/off** button **23**.

The musical note symbol on the display **17** will flash briefly and then the next song will be played.



3. You switch the function off by again briefly pressing the **Lullabies on/off** button **23**.

The musical note symbol disappears.

Caution! We recommend that you do not use the mute setting on the parent unit while lullabies are being played, because this would leave you with no monitoring functions at all and quite unable to hear if your baby cries.

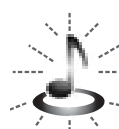
Note: The five LEDs **21** are switched off while lullabies are playing, because the device cannot distinguish between a baby crying and a lullaby being played, but you will still be able to hear if your baby is crying in the background.

Lullabies in Eco-Mode

Please note! There are a number of special features while the babyphone is in Eco-Mode (see “4.5 Eco-Mode and FULL-ECO-CONTROL” on page 35):

- The “Lullaby” function is temporarily deactivated so that you do not inadvertently disturb baby.

In this case the musical note symbol will flash while the FULL-ECO-CONTROL function checks the connection between the two units.



- To prevent the lullabies switching on later, you can again press the **Lullabies on/off** button **23** to immediately cancel the function. The flashing symbol will then disappear from the display.

- If you choose to switch the lullabies on anyway, there may be a delay of up to 30 seconds before they begin. In Eco-Mode, the activation command is not transmitted until the next range check is carried out (see "Range check in Eco-Mode" on page 35).


6.11 Nightlight

The Nightlight function provides for a soft dim light in the nursery.

Note: You can alternatively switch the nightlight on and off from the baby unit itself (see "5.4 Nightlight" on page 37).

1. You activate the function by briefly pressing the **Nightlight on/off** button **25**.

The nightlight **5** switches on.

The display **17** shows the  lightbulb symbol.

2. You switch the function off by briefly pressing the **Nightlight on/off** button **25** again.

The nightlight **5** switches off.

The lightbulb symbol disappears.

Nightlight in Eco-Mode

Please note! There are a number of special features while the babyphone is in Eco-Mode (see "4.5 Eco-Mode and FULL-ECO-CONTROL" on page 35):

- The "Nightlight" function is temporarily deactivated so that you do not inadvertently disturb baby.

In this case the lightbulb symbol will flash while the FULL-ECO-CONTROL function checks the connection between the two units.



- To prevent the nightlight from switching on later, you can again press the **Nightlight on/off** button **25** to immediately cancel the function. The flashing symbol will then disappear from the display.
- If you choose to switch on the nightlight anyway, there may be a delay

of up to 30 seconds before this happens. In Eco-Mode, the activation command is not transmitted until the next range check is carried out (see "Range check in Eco-Mode" on page 35).

6.12 Room temperature

The correct room temperature is particularly important for baby's healthful sleep. The baby unit of this NUK babyphone therefore has an integrated temperature sensor.

The temperature in the nursery is always shown on the display **17** and is updated automatically.

Note: Since the temperature sensor is inside the baby unit it is important that you do not cover it or place it near the heating. Direct sunlight may also affect the reading.

The baby unit checks the room temperature and sends warnings to the parent unit. The following signals are displayed on the display of the parent unit:

Display	Significance / Action
LO flashing	The temperature has fallen below the lower threshold of 10 °C. The room temperature has reached an extremely critical level and urgent action is required to increase the temperature in the nursery.
10 °C to 15 °C flashing	This temperature is too low for baby to sleep properly. Check the heating and adjust it if necessary.
15 °C to 30 °C	This temperature is suitable for baby to sleep properly.
30 °C to 35 °C flashing	This temperature is too high for baby to sleep properly. Check the ventilation or air-conditioning and adjust it if necessary.

Display	Significance / Action
HI flashing	The temperature has risen above the upper threshold of 35 °C. The room temperature has reached an extremely critical level and urgent action is required to reduce the temperature in the nursery.

6.13 Torch

The built in torch will help you find your way in the dark without switching on the overhead light and possibly disturbing your baby.

1. You switch the torch on by holding down the **Torch on/off** button **25** for 4 seconds.

The torch **13** lights up.

2. You switch the torch off by again holding down the **Torch on/off** button **25** for 4 seconds.

The torch **13** goes out.

7. Cleaning and care

7.1 Cleaning



Warning! To avoid the risk of electric shocks, injuries and damage:

- Always disconnect the mains adapter from the power socket before cleaning the device.
- Never immerse the individual parts in water.

Caution! Under no circumstances use abrasive, corrosive or scratching cleaning agents, as these could damage the device.

1. If necessary, wipe the individual parts with a damp cloth.
2. Only use the baby monitor again when all the parts have fully dried out.

7.2 Changing the battery

The installed 3.7V 1200 mAh lithium polymer battery (LiPo) may be replaced only by a genuine replacement battery as used by us. If necessary please contact our Product Service (see "Product service babyphone in Europe" on page 143).

1. Remove the battery cover **14** on the back of the parent unit **12**, by sliding it downwards.
2. Remove the defective battery.

3. Put the new battery in its compartment as indicated on the unit. Make sure you insert it with the correct polarity (+ and -).
4. Slide the battery cover **14** back onto the parent unit **12**.
5. Initially, charge the parent unit continuously **for 10 hours** to activate the full battery capacity (see "4.1 Connecting the parent unit" on page 33).

8. Faults and how to remedy them



Fault	Cause	Remedy
Baby unit or parent unit does not work	No power supply	Set up the power supply (see "4.4 Power supply" on page 34)
	Battery of parent unit is empty	Charge the battery (see "4.4 Power supply" on page 34)
	The unit is not switched on	Switch it on (see "4.1 Connecting the parent unit" on page 33 and "4.2 Connecting the baby unit" on page 33)
	The baby unit and parent unit are too far apart, or the signal is being blocked by solid walls or other electrical equipment	Reduce the distance or place the parent unit somewhere else
Loud whistling	Feedback due to the parent unit and baby unit being too close together	Increase the distance to at least 2 – 3 m
		Reduce the volume and the VOX level on the parent unit if you are in the immediate vicinity of the baby unit (see "6.8 Using the VOX function to adjust the transmission sensitivity" on page 40 and "6.5 Adjusting the volume control" on page 39).
Parent unit is beeping	Connection to the baby unit has been lost	Set up the connection (see "4.3 Connecting baby unit and parent unit" on page 33)
	Problem with the power supply	Check the power supply (see "4.4 Power supply" on page 34)
Connection indicator 18 has lit up red	The parent unit is out of range	Set up the connection (see "4.3 Connecting baby unit and parent unit" on page 33)
No sound from the parent unit	Volume is muted	Increase the volume (see "6.6 Mute setting" on page 39)
	VOX function is set too low	Increase the transmission sensitivity (see "6.8 Using the VOX function to adjust the transmission sensitivity" on page 40)

If these hints do not solve the problem you can try to clear the fault as follows:

1. Take the battery out of the parent unit.
2. Unplug the mains adapters from their power sockets.
3. Wait a few minutes.
4. Replace the battery and plug the mains adapters back in.

If this has not resolved your problem, please contact one of our Service Centres (see "11.2 Service Centres Babyphone" on page 47).

9. Technical data

Wireless connection	2.4 GHz FHSS
Transmission frequency	2408 MHz - 2474 MHz, max EIRP 100mW
Number of channels	12 / automatic channel selection
Line of sight range	about 250 m
Range within enclosed rooms	about 40 m. Successful transmission depends on the environment. Walls or trees can seriously interfere with reception.
Baby unit	
Operating temperature	0 °C to 40 °C ambient temperature
Parent unit	
Operating temperature	0 °C to 40 °C ambient temperature
Battery	Lithium polymer battery (LiPo), 3.7 V, 1200 mAh
	Period of operation in normal transmission mode: at least 15 hours
	Period of operation in Eco-Mode: at least 18 hours
	Charging time when battery is charged for the first time: at least 10 hours, on subsequent occasions, charging takes about 5 hours
Mains adapters	
Input	100–240 V AC; 50/60 Hz; 0.1 A
Output	5 V  ; 2.75 W; 

9.1 FHSS Technology

The wireless transmissions of this baby monitor use modern FHSS technology.

Frequency Hopping Spread Spectrum (FHSS) is a digital frequency spreading method for wireless data transmissions. Unlike earlier methods, the whole of the transmission power is not concentrated on a single frequency. Instead, the carrier frequency is changed at random. The individual data packets transmitted via the different carrier frequencies are then reassembled in the receiver.

This method has several advantages over conventional radio transmission:

- It is also much more difficult to intercept the radio signal, because the listener does not know how the signal is distributed among the different frequencies and how to correctly reassemble it. For this reason the same method is used by Bluetooth and by the military.

- Radio transmissions that use this method are also much less susceptible to interference. This is because a given carrier frequency is always used only very briefly before switching to another. If there is interference on one frequency it will affect only small data packets, and appropriate correction algorithms can compensate for such errors.

9.2 Using several babyphones

The FHSS technology in this babyphone makes it possible to use several complete babyphone sets (baby unit + parent unit) side by side in order to monitor a number of rooms simultaneously. Each parent/baby unit combination is equipped with a unique code that makes it impossible to receive or transmit signals from or to a different babyphone.

For this reason this device cannot be extended by purchasing additional baby units or parent units.

10. Disposal

10.1 Equipment



The symbol of the crossed-through wheeled bin means, within the European Union, that the product is subject to a separate waste collection. This applies to the product and all accessories marked with this symbol. Products labelled as such must not be disposed of with the normal household waste collections; they must be taken to a recycling bank for electrical and electronic equipment. Recycling helps to reduce the use of raw materials and is eco-friendly.

10.2 Packaging

When you wish to dispose of the packaging, please observe the relevant environmental regulations for your country.

10.3 Disposable/rechargeable batteries



Batteries must not be disposed of with domestic waste. Flat batteries must be disposed of properly. Special containers for battery disposal are provided for this purpose at shops selling batteries or at municipal collection points. Batteries and rechargeable batteries on which the following letters are printed contain, among other things, the following harmful substances: Cd (cadmium), Hg (mercury), Pb (lead).

11. Warranty

In addition to the seller's warranty obligations arising from the contract to purchase, we as the manufacturers provide a warranty of 24 months from purchase of the appliance as long as the appliance is used properly and the operating instructions are followed. Evidence of the date of purchase and the type of appliance should be provided by means of a receipt.

The purchaser's statutory rights are unaffected by this manufacturer warranty.

During the warranty period, we undertake to remedy any defects attributable to poor materials or workmanship. Wear parts are excluded from the warranty.

Minor deviations from specified quality which do not affect the value or usability of the appliance are not covered by the warranty. We are likewise unable to accept the warranty if the defects on the appliance are due to transport damage for which we are not responsible, if they are attributable to misuse or lack of care or if the appliance

has been interfered with by persons not authorized by us to do so.

The warranty service will involve repair, replacement of parts or replacement of the appliance at our discretion. The warranty period will be neither extended nor restarted by the performance of warranty services. The warranty for any spare parts fitted will expire with the warranty for the appliance as a whole.

Extended or different claims, especially those relating to the making good of damage sustained outside the appliance, are excluded unless liability is compulsory in law.

We will not accept the costs or risks of transport.

An appliance sent in without evidence of the purchase date will be treated as a repair. The appliance will only be repaired following discussion with the customer.

Please keep this address and article number in case of any queries.

Warranty conditions applicable for the country in question apply to devices not bought in Germany.

MAPA GmbH, Industriestraße 21-25,
27404 Zeven, Germany

11.1 Service Centres NUK

You will find our service addresses for guarantee questions and general queries about the NUK brand at "Contact addresses NUK" on page 142.

11.2 Service Centres Babyphone

If you have any queries about your babyphone, please contact our babyphone experts. You will find the product hotline at "Product service babyphone in Europe" on page 143, or you can contact us via our website www.nuk-service.com.

Article no.: 10.256.440

11.3 Supplier

Please note that this is **not an address for service**. If you have any problems with or queries about your product, contact one of the Service Centres listed in 11.2.

MAPA GmbH
Industriestraße 21-25
27404 Zeven
Germany
www.nuk.com

12. Declaration of conformity

The device meets all applicable European directives, as well as the relevant national laws implementing them. These are shown in the EU declaration of conformity which can be requested from the manufacturer.

You will find the Declaration of Conformity and the Operating Instructions in the package, or at www.nuk.de or www.nuk-service.com.