Contents

1. Description of device

1.1 Proper use

This baby unit can used as an additional camera for the baby monitor Eco Control Video Display 550VD (Article no. 10.256.441).

There can be four cameras added to the baby monitor Eco Control Video Display 550VD in total.

Further Information can be found in the operating instructions of the Babyphone.

1.2 Contents of package

- 1 baby unit (for the nursery)
- 1 mains adapter for the baby unit
- Screws for wall-mounting the baby unit
- 1 User Manual

2. Safety 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.
- Please pay attention to all safety instructions that are listed in the operating instructions for the baby monitor Eco Control Video Display 550VD.

In case you do not have the instruction manual at hand you can dowload it on our website www.nuk.de or on our service website www.nuk-service.com

Special notes for this baby unit (camera)

 Warning! 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 must not be used if it is damaged.

⚠️ **Warning!** For your child's safety and to prevent injuries:

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

Caution! To prevent damaging the product:

- Do not expose the baby unit to direct sunlight or extreme heat as UV rays and overheating may make the plastic brittle and the electronics could be damaged.
- The baby unit 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 unit in damp or wet surroundings.
- Never use the baby unit 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 baby unit is not in use, always switch it off with the On/Off button **10**.

3. Components of the baby unit

1 Baby unit

2 Microphone

3 Camera

4 Light sensor

5 Nightlight

6 Infrared LEDs

7 VOX LED
- green light if there is 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.

8 Power LED
- green light when the baby unit is switched on

9 Recessed button for activating the connection link signal

10 On/Off button:
- short press: switch on
- long press: switch off

11 +/- volume buttons

12 Button **Lullabies on/off**
- short press: switch lullabies on and off
- long press: select the next song

13 Button **Nightlight on/off**
- switch nightlight on and off

14 Speaker

15 Temperature sensor (inside the base of the housing, not visible)

16 Mains adapter jack

3.1 Overview of baby unit indicators

Baby unit		
Light	**Display**	**Meaning**
VOX LED **7**	green	Link ok (non Eco-Mode)
	off	Link ok (Eco-Mode)
		Link not ok

Baby unit		
Light	**Display**	**Meaning**
Power-LED **8**	green	Baby unit is switched on
	off	Baby unit is switched off

4. Starting the device

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

4.1 Connecting the baby unit

The baby unit automatically switches itself on when it receives a fresh power signal over the mains. This prevents the baby unit from staying switched off when power is restored after a short power failure.

Note: Don't install the baby unit **1** until the battery of the parent unit **17** 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.

Make sure the camera is set up to keep your baby in the picture at all times, even if the zoom function on the parent unit is active.

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 **16** of the baby unit **1**.

3. Insert the plug into a power socket that matches the rating given in the technical data (see "7. Technical data" on page 37).

This automatically switches the baby unit on.

Note: You can also wall mount the baby unit in a suitable position with the enclosed screws. Make sure you position the screws 45 mm apart for this.

4.2 Connecting baby unit and parent unit

1. First make certain the parent unit is near enough to the baby unit.

   Move to a location that you can be confident is within range of the baby unit so that the parent unit can receive the connection link signal and there are no communication problems.

2. To switch the baby unit **1** on, press and hold the On/Off button **10** until the power LED **8** lights up.

3. To switch the parent unit **17** on, press and hold the On/Off button for a few seconds:

You will hear a beep, the **power LED 21** will light up, and the "Hello" screen will appear.

Please performe the following steps on the parent unit:

4. Press the (ok) button **26**.

   The menu bar with the main menu will appear at the bottom of the screen.

5. Use the ◁ **24** or ▷ **27** button to select the **Camera** menu.

   The selected symbol will be shown in red.

6. Press the (ok) button **26** to view the submenu.

7. Use the △ **25** or ▽ **28** button to select the **Add camera** submenu.

8. Press the (ok) button **26** to view the next submenu.

   An overview appears showing four camera symbols. The

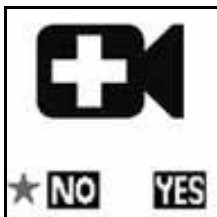available camera numbers for your new camera are shown in black.

Camera numbers already in use are shown in green.

9. Use the △ **25** or ▽ **28** button to move the star in front of the available camera number you wish to use for the new camera (black symbol).

10. Press the (OK) button **26** to confirm your selection.

You will be asked to confirm your selection again.

11. Use the ◁ **24** or ▷ **27** button to select "**YES**" and press the (OK) button **26** to confirm.

The screen of the parent unit will show that the device is ready to set up the connection and is searching for the connection link signal.

12. Insert a bent paper clip or similar into the button recess and press the recessed button **9** on the baby unit to activate the connection link signal.

The baby unit will then transmit the connection link signal for the parent unit to find.

As soon as the connection with the new camera has been successfully set up, you will hear a beep and the appropriate symbol will appear on the screen.

The menu on the parent unit will be closed and video transmission from the new baby unit will be shown. The new baby unit is displayed in the status bar with a camera symbol and number.

4.3 Patrol-Mode

This function is particularly useful if you are monitoring more than one child or more than one room, or if you wish to monitor the same room

from automatically changing perspectives. At least two baby units/cameras must be connected to the parent unit in order to be able to use this function.

Patrol mode automatically switches from one camera to the next every 10 seconds. Camera-specific settings remain active and can also be changed while patrol mode is on.

To select patrol mode, proceed on the paremt unit as follows:

1. Press the (OK) button **26**.

   The menu bar with the main menu will appear at the bottom of the screen.

2. Use the ◁ **24** or ▷ **27** button to select the **Camera** menu.

   The selected symbol will be shown in red.

3. Press the (OK) button **26** to view the submenu.

4. Use the △ **25** or ▽ **28** button to move the star in front of the "Add camera" setting.

5. Press the (OK) button **26** to view the next submenu.

   An overview appears showing camera symbols. Camera numbers under which a camera/ baby unit is registered are shown in green.

   The patrol mode symbol will only appear if at least two cameras/baby units are connected.

6. Use the △ **25** or ▽ **28** button to move the star in front of the patrol mode symbol.

   At this point, you can still exit the submenu by pressing the ▷ button **27**. The submenu will close and you will be returned to the previous submenu. However, to continue with your settings, continue with the next step.

7. Press the ⓄⓀ button **26** to confirm your selection.

The menu on the parent unit will be closed and video transmission from the connected cameras/baby units will be shown in sequence. The number of the active camera/baby unit is displayed in the status bar. in addition, the patrol mode symbol will be shown.

In patrol mode, the VOX level is automatically set to 5, i.e., continuous transmission. This means that Eco-Mode is not available in patrol mode (see "6.8 Setting the VOX sensitivity level" in the manual of the baby monitor Eco Control Video Display 550VD).

Note: After 15 seconds without any input from you, the menu will be closed with the settings unchanged and the parent unit will return directly to monitoring mode.

Deactivating patrol mode

To deactivate patrol mode, follow steps 1 to 5 described above.

6. When you come to step 6, instead of selecting **PM**, select a particular camera/baby unit you wish to use for continuous monitoring.

7. Press the ⓄⓀ button **26** to confirm your selection.

The menu on the parent unit will be closed and video transmission from the selected camera/baby unit will be shown. The number of the active camera/baby unit is displayed in the status bar and the **PM** symbol disappears.

Connection problems in patrol mode

If there is a connection problem with one of the baby units while the parent unit is in patrol mode, you will hear a beep and a corresponding symbol will appear on the screen.

The units will automatically try to reconnect, and will continue to attempt this until the connection is established successfully once more. Once the connection has been reestablished successfully, the device will return directly to monitoring mode.

If the parent unit continues to fail to find a connection signal from the baby unit, the corresponding red warning symbol appears. The connection setup is attempted for one minute, before patrol mode switches to the next camera/baby unit.

If the connection problem recurs the next time the baby unit is accessed in the patrol mode loop, check the connection to this baby unit. This baby unit might need to be re-registered (see "4.2 Connecting baby unit and parent unit" on page 28).

4.4 Eco-Mode and Full-Eco-Control

This baby monitor has an Eco-Mode function that not only saves power but also minimises the high-frequency radio waves in the nursery.

In this mode, there is only limited transmission between the baby unit and the parent unit, although the Full-Eco-Control function ensures that both units remain connected the whole time. If the connection is interrupted in Eco-Mode, this is immediately indicated on the parent unit. The device automatically deactivates Eco-Mode and transmits sound and video again as soon as your baby makes a sound that exceeds your set sound limit (VOX levels 1 - 4).

Activating Eco-Mode

Eco-Mode can only be activated at VOX levels 1, 2, 3, and 4 (see "6.8 Setting the VOX sensitivity level" in the manual of the baby monitor Eco Control Video Display 550VD).

Eco-Mode is activated automatically as soon as the device fails to detect a sound from your baby for more than 20 seconds.

Note: At VOX level 5, the device is set to continuous transmission. There is no Eco-Mode at this level.

The connection indicator **20** on the parent unit flashes green while Eco-Mode is active.

The screen will be white, as video transmission is deactivated.

The appropriate symbol is shown in the status bar on the parent unit in place of the symbol that indicates the received signal strength.

Deactivating Eco-Mode

Eco-Mode is deactivated when:

- your baby makes a sound that exceeds your set sound limit (VOX level)
- you increase on the parent unit the VOX level setting to 5 (continuous transmission) (see "6.8 Setting the VOX sensitivity level" in the manual of the baby monitor Eco Control Video Display 550VD)
- you use the talk-back function (see "6.15 Talk-back function" in the manual of the baby monitor Eco Control Video Display 550VD)
- you activate the lullabies (see "6.11 Lullabies" in the manual of the baby monitor Eco Control Video Display 550VD)

  Note: If VOX level 1 is set and the lullabies are played at the lowest volume setting, Eco-Mode can still be activated, as the lullabies will not exceed the set sound limit.

- you switch the nightlight on (see "5.5 Nightlight" on page 36)
- you briefly press the On/Off button **10**

When Eco-Mode is deactivated:

- the connection indicator **20** on the parent unit will show a steady green light

- video and sound transmission will be active again
- the status bar on the parent unit will show the received signal strength symbol again instead of the Eco-Mode symbol

Full-Eco-Control

The Full-Eco-Control function maintains the connection between the parent unit and the baby unit at all times, so that sounds, video, and warnings (e.g. temperature alarm) can be transmitted by the baby unit when necessary.

The Full-Eco-Control function guarantees that you and your baby are always connected. Even when ECO mode is activated, the baby unit will perform a link check every 30 seconds to make sure that the parent unit is still nearby and maintain the connection between the two units.

If you are out of range at any time, the parent unit will indicate this by changing the colour of LED **20** to red and beeping.

A red warning symbol will appear on the screen on the parent unit.

Note: Check the range of your baby monitor before using it.

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 then switch the baby unit off and back on as required.

- To switch the baby unit **1** on or off, press and hold the On/Off button **10** until the power LED **8** lights up or switches off.

5.2 Indicator LEDs

- The Power LED **8** lights up green while the baby unit is switched on.
- The VOX LED **7** on the baby unit lights up green when there is an established connection between it and the parent unit.
- The VOX LED **7** 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 Setting the volume

We recommend switching the lullabies on for setting the volume on the baby unit, as playing them can help you decide which of the five possible volume settings is best suited to your purpose.

1. Activate the lullabies (see "5.4 Playing the lullabies" on page 35).
2. Use the **VOL +/-** buttons **11** to set the volume at which baby will hear the lullabies or your voice.

5.4 Playing the lullabies

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

1. To activate the lullabies on the baby unit **1**, press the **Lullabies on/off** button **12**.

   Note: The lullabies can also be activated from the parent unit (see "5.4 Playing the lullabies" in the manual of the baby monitor Eco Control Video Display 550VD).

2. You can change the current song by holding down the **Lullabies on/off** button **12**. This automatically goes on to the next song.

Note: If the timer function has been activated on the parent unit, and you change from one lullaby to the next directly on the baby unit, the timer will be restarted. If the timer function has not been activated, the lullaby will continue to be played repeatedly

until switched off by you on the parent unit or the baby unit.

5.5 Nightlight

The baby unit's soft nightlight can help your baby to get its bearings in the dark room, which it may find soothing. The nightlight remains on until it is switched off by you or the timer function on the parent unit.

1. You can switch the nightlight on or off on the baby unit by briefly pressing the button **Nightlight on/off 13**.

Or

2. You can switch the nightlight on and off on the parent unit.

5.6 Measuring the room temperature

The baby unit has an integrated temperature sensor which is not visible from the outside. This sensor measures the temperature in around the baby unit, which is displayed and continually updated on the parent monitor.

Notes: To avoid affecting the temperature measurement:
- do not cover the baby unit
- do not place the baby unit near a heater or cold surfaces
- do not place the baby unit in direct sunlight.

6. 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. Technical data

Wireless connection	2.4 GHz FHSS
Transmission frequency	2405 - 2475 MHz, max EIRP 100mW
Number of channels	32 / 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.
Operating temperature	0 °C to 40 °C ambient temperature
Mains adapter	
Input	100–240 V AC; 50/60 Hz; 200 mA
Output	6 V ⎓; 600 mA; ⊖–⊙–⊕

7.1 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 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.

8. Disposal

8.1 Equipment
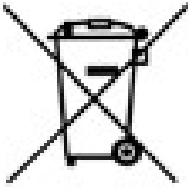
The symbol of the crossed-through wheelie bin means, within the European Union, that the product is subject to a separate waste collection. This applies to the product and all accessories marked with this symbol. Products labelled as such must not be disposed of with the normal household waste collections; 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.

8.2 Packaging

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

9. 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. Worn 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 tampered 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 for future reference.

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

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

9.1 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 42.

9.2 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 44, or you can contact us via our website www.nuk-service.com.

Article no. EU: 10.256.464

9.3 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 "Product service babyphone in Europe" on page 44.

MAPA GmbH

Industriestraße 21-25

27404 Zeven

Germany

www.nuk.com

10. 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.