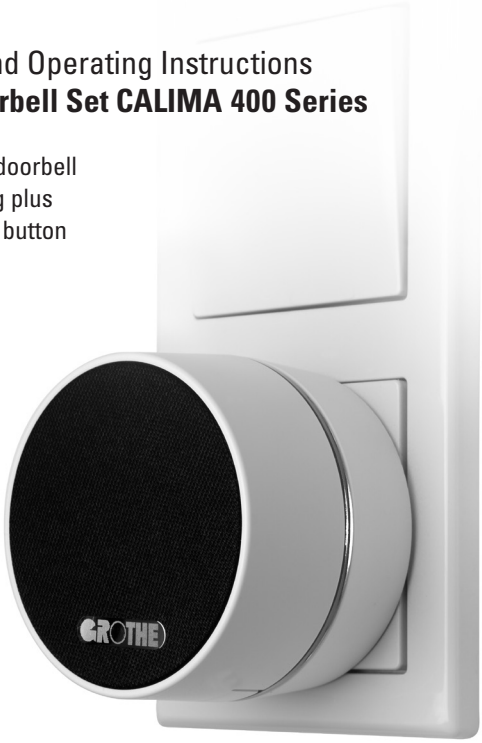
Installation and Operating Instructions

Wireless Doorbell Set CALIMA 400 Series

Wireless plug-in doorbell
with LED light ring plus
wireless doorbell button
in set



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Warranty / package contents / materials required

Dear Customer,

You have purchased a high-quality product that was designed and manufactured with utmost care and to the highest standards. The statutory warranty period applies. The warranty does not cover defects that are due to improper handling or use or failure to observe the installation and operating instructions.

Package contents (please check for completeness)

- ☐ 1 x wireless plug-in doorbell CALIMA 400
- ☐ 1 x wireless doorbell button
- ☐ 2 x dowels and 2 x Phillips screws for mounting the wireless doorbell button
- ☐ 1 x Allen key to open the cover on the wireless doorbell button

Also required (not included in delivery)

- ☐ Tools / aids such as a drill, screwdriver

Alternative mounting option (not included in delivery)

- ☐ Velcro strip or double-sided tape instead of mounting with screws

Safety instructions / cleaning

Do not expose the **wireless doorbell** to water droplets or splash water!
Do not place any objects filled with liquids on it! Do not cover it with objects or blankets, curtains etc. and protect it from direct sunlight and open fire sources!

Do not expose the batteries in the **wireless doorbell button** to excessive heat (e.g. direct sunlight, fire etc.)!

Intended use

The devices described here are only intended for private use as a wireless doorbell or signalling system. Function may be impaired by various influences (dead batteries, radio interference, etc.). Do not use the wireless doorbell set in safety-relevant areas!

You are REQUIRED to take additional safety measures if the device's failure could endanger people or cause other consequential damage!

Cleaning
Only use a damp cloth for cleaning. Do not use microfibre, as this could damage the surface.

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CALIMA 400 – Overview of main features

The set contains one wireless plug-in doorbell and one wireless doorbell button.

The CALIMA 400 is a wireless plug-in doorbell that is always ready for use. It not only announces your visitors reliably, but it can also be used as a night light thanks to the integrated LED light ring. When the night light function is activated, the LED light ring lights up discreetly in the colour selected.

Simply plug the wireless doorbell into an easy-to-see indoor socket or on the terrace within an audible range. The powerful melodies are easy to distinguish from common ambient noise, which means that you can still hear the doorbell clearly even from a distance. The coloured blinking LED light ring is clearly visible and also helps to ensure that no visitors or family members are missed, even when you cannot hear the wireless doorbell. The specially wide range of the wireless signal also allows you to roam freely around your house.

Ready to use: The wireless doorbell button is already paired from factory with the wireless plug-in doorbell, so that you can use the wireless doorbell set almost immediately. All you have to do is insert the batteries into the wireless doorbell button. Individual settings such as the desired ring melody, the colour of the LED light ring for call signalling as well as for the night light and the volume can be changed later.

Networking and custom settings: Several wireless doorbell buttons and wireless doorbells[1] can be combined with each other. It is even possible to configure a different melody and LED light ring colour for each wireless doorbell button. This allows you to determine where the signal is coming from.

[1] (only wireless doorbells of the ECHO, MISTRAL and CALIMA series)

Alarm function: You may use the included wireless doorbell button as an alarm transmitter. Additional SE03-type wireless doorbell buttons can also be purchased separately. Using this type of wireless doorbell button in combination with a wireless doorbell of the CALIMA series enables you to set up a quickly usable, flexible and, above all, mobile in-house emergency call system. A person in distress can conveniently use this to alert others. Simply press and hold the wireless doorbell button for about three seconds.

Expandable system: Wireless doorbell sets of the CALIMA series can be expanded with additional wireless doorbell buttons and wireless doorbells. Wireless doorbell buttons can be paired with any number of wireless doorbells; Up to 11 wireless doorbell buttons are possible per wireless doorbell. Malfunctions are excluded as each wireless doorbell button sends a unique code.

The perfect addition:

CALIMA 200

Our mobile wireless doorbell!

No matter where you are in the house or garden, never miss a visitor again with our wireless doorbell.

No cables

Menu with voice message

Powerful sound

Optical signal display

Sleep mode

Mute function

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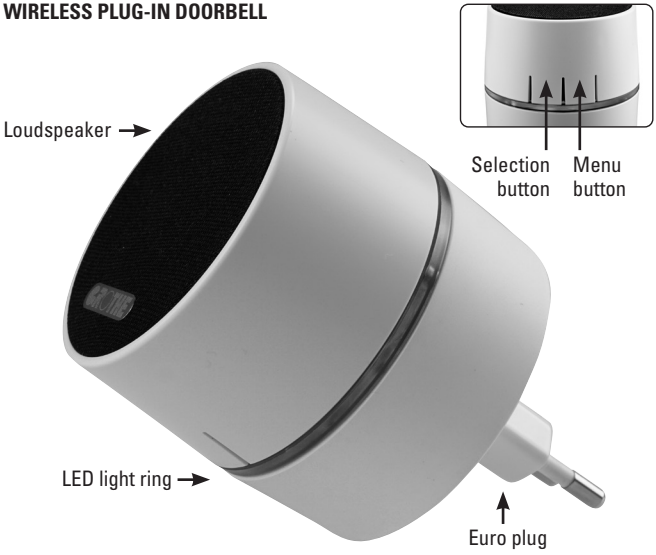
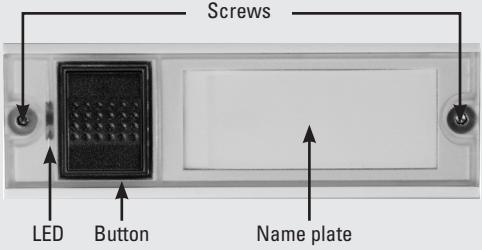
Product overview of wireless plug-in doorbell set CALIMA 400

WIRELESS PLUG-IN DOORBELL



WIRELESS DOORBELL BUTTON



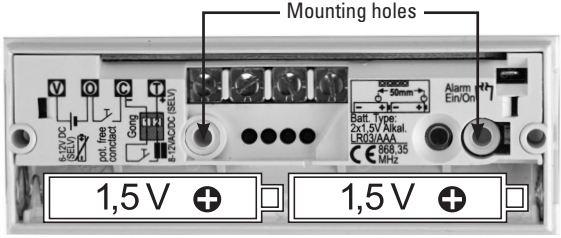
Initial use / starting up – Wireless doorbell button

Wireless doorbell button: assembly, inserting batteries, labelling the name plate

1

Release the screws of the cover of the wireless doorbell button with the Allen key to remove the top.

2

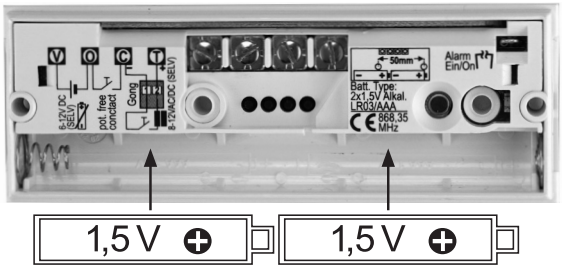


Fasten the lower part of the wireless doorbell button to the wall through the fastening holes with the screws provided.

Note: If possible, do not install the wireless doorbell button on metallic parts, as this reduces the transmission range significantly.

Starting up – Using the wireless doorbell button with batteries

3



Insert two 1.5 V batteries (type AAA) in the lower part of the wireless doorbell button. Pay attention to the polarity (see markings).

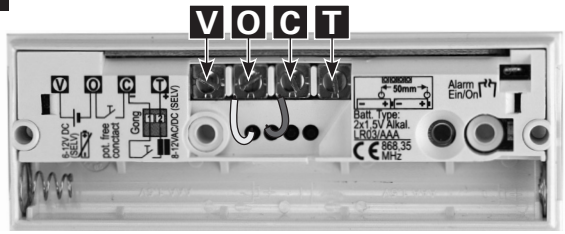
4

To write on the label, pull out the name tag to the side and push it back in afterwards. Fasten the upper part of the wireless doorbell button to the lower part again with the Allen screws.

Wireless doorbell button – Battery operation / optional wiring

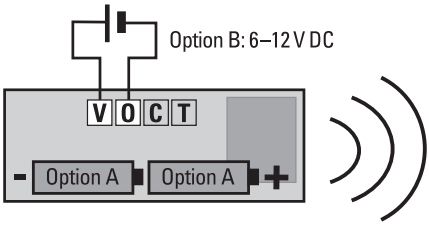
Electrical connection to an existing doorbell system

5



Strip the insulation from the wires to approx. 6 mm and carefully push them through the sealing grommets on the back of the wireless doorbell button. If necessary, cut off the upper tip of the sealing grommets first.

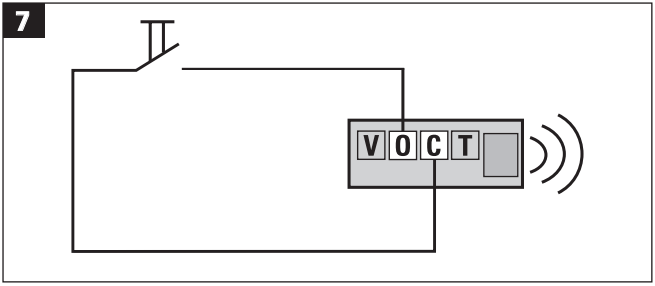
6 **Two connection options of the wireless doorbell button**



Option A: Two 1.5 V batteries (type AAA, LR03)
Option B: 6-12 VDC via terminals '0' for negative pole (-) and V for positive pole (+)
Attention: The batteries must be removed from the wireless doorbell button when electricity is connected!

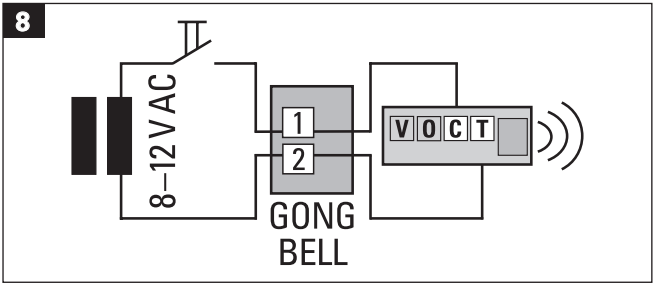
Using the wireless doorbell button with the existing doorbell system

7



The terminals '0'and 'C' are used for connection to a potential-free button.

8



Use the 'C' and 'T' terminals to connect the wireless doorbell button to a doorbell system with a mechanical chime or bell (3-12 V AC/DC).
When triggering with DC voltage, the minus pole (-) is connected to 'C' and the plus pole (+) to 'T'.

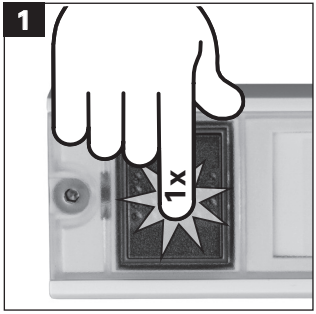
Custom settings – Melody

The wireless doorbell is configured and operated with two buttons:

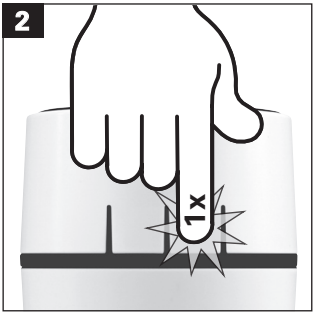
- Select button (left)
- Menu button (right)

The voice output of the wireless doorbell reports the status of the settings.

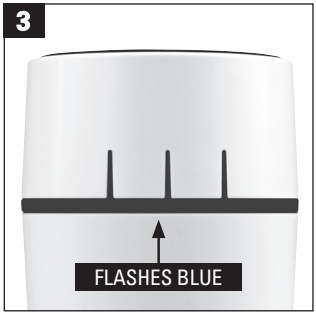
Good to know: All settings are permanently stored – even without power supply.



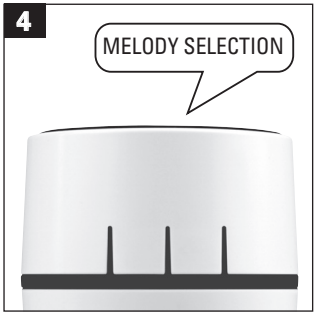
Press the wireless doorbell button for which you want to set the melody.



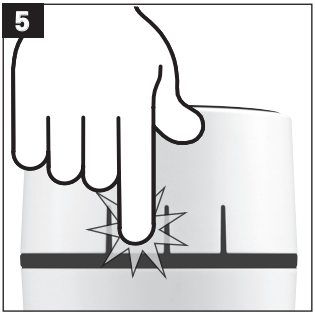
Then press the **menu button** on the wireless doorbell **once in the default state**.



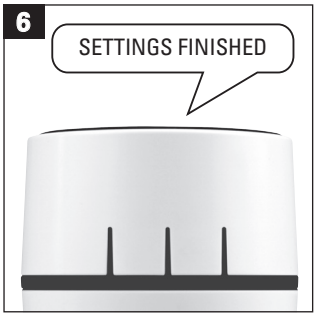
To confirm, the LED light ring **flashes blue**.



You will hear the device say "melody selection".



Press the **select button** repeatedly until the melody you want plays.



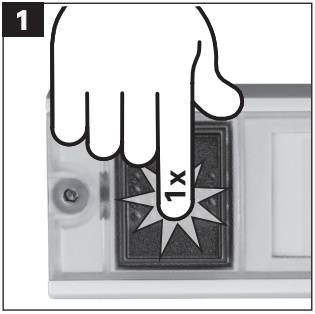
To confirm, the device will say "settings finished".

From now on, you will hear the last played melody when the wireless doorbell button is pressed.

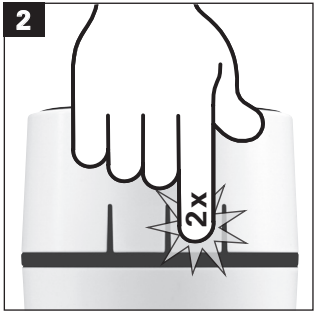
Note: The wireless doorbell automatically returns to its default state if no button is pressed for 7 seconds.

Repeat this process to set the melody for other wireless doorbell buttons.

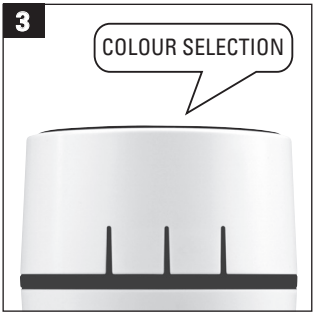
Custom settings – LED light ring colour



Press the wireless doorbell button for which you want to set the **colour of the LED light ring**.

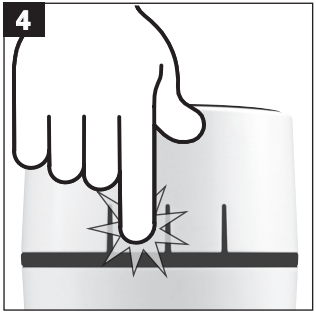


Then press the **menu button twice** in the default state.

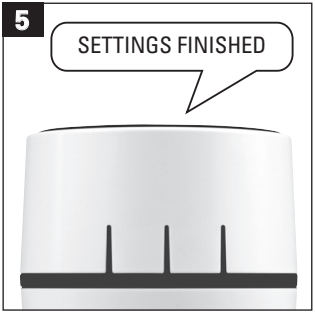


You will hear the device say "colour selection". The LED light ring lights up in the currently set colour.

Good to know: You can select the colour of the LED light ring individually for each wireless doorbell button.
This enables you to determine which doorbell has been been rung if you have several wireless doorbell buttons.



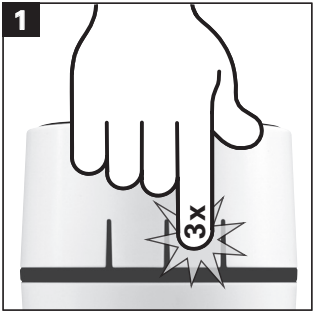
Now press the **select button** repeatedly until the LED light ring lights up in the desired colour. Your selection is **automatically saved** if no button is pressed for **7 seconds**.



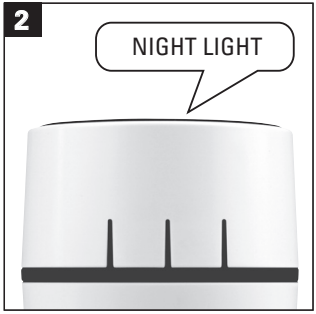
Seven seconds after the last button was pressed, you will hear the device say "settings finished". The LED light ring now lights up in the set colour when the wireless doorbell button is pressed.

Note: The wireless doorbell automatically returns to its default state if no button is pressed for 7 seconds.

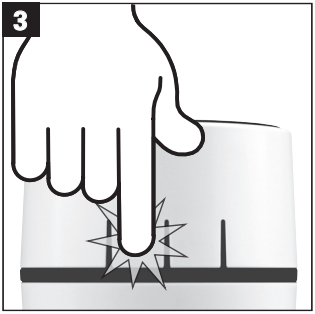
Custom settings – Night light colour / deactivating



Press the **menu button 3 times** in the default state.

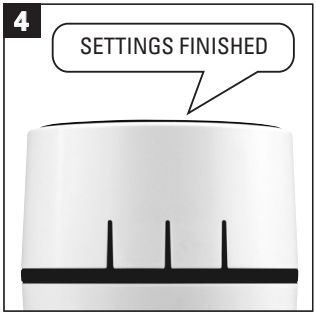


You will hear the device say "night light". The LED light ring lights up in the currently set colour.



Press the **select button** repeatedly until the LED light ring lights up in the desired colour or goes out.

Your selection is **automatically saved** if no button is pressed for **7 seconds**.



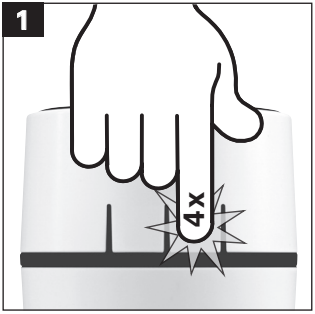
To confirm, the device will say "settings finished".

Seven seconds after the last button was pressed, you will hear the device say "settings finished".

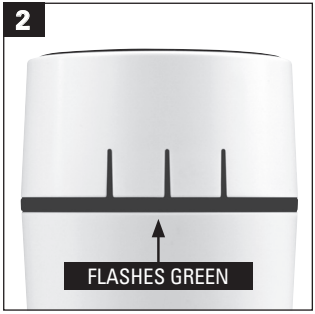
The LED light ring now lights up in the set colour.

Note: The wireless doorbell automatically returns to its default state if no button is pressed for 7 seconds.

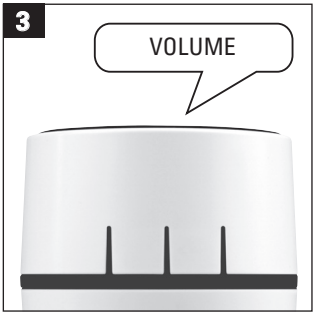
Settings – Volume



Press the **menu button 4 times** in the default state.

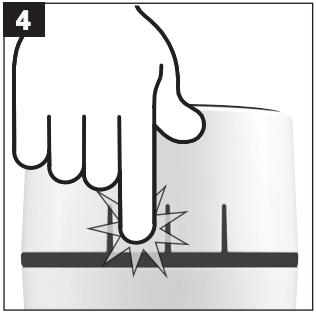


To confirm, the LED light ring flashes **green**.

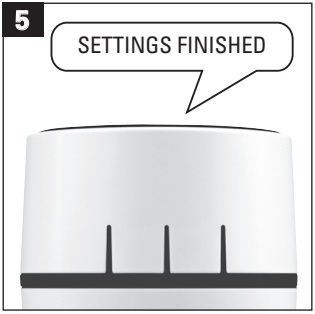


You will hear the device say "volume".

Note: The volume of the wireless doorbell is always adjusted simultaneously for **all** wireless doorbell buttons.



Press the **select button** repeatedly until the melody plays at the desired volume. Your selection is **automatically saved** if no button is pressed for **7 seconds**.



Seven seconds after the last button was pressed, you will hear the device say "settings finished".
The wireless doorbell will now signal at the last volume selected.

Note: The wireless doorbell automatically returns to its default state if no button is pressed for 7 seconds.

Mute / snooze function

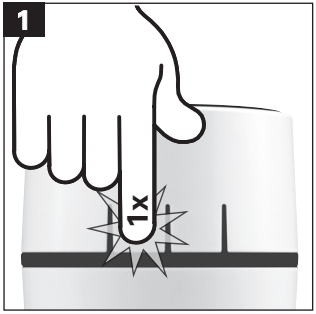
If you do not want to be disturbed, you can mute the wireless doorbell so that neither a melody is played nor the LED light ring flashes. **The wireless doorbell will no longer send optical or acoustic signals.**

You have two options:
- The function is either enabled **for a preset amount of time (snooze)**
- or **indefinitely (mute)**.

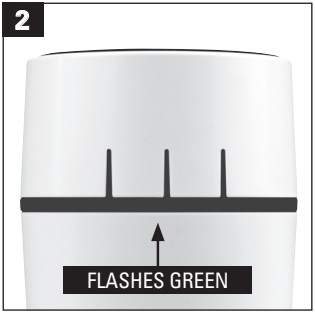
Both functions, i.e. muting and snooze, are displayed optically. The LED light ring flashes **green** until the wireless doorbell is back in active mode, thus serving as a reminder to end muting.

Unique feature: When the **night light is set to green**, the LED light ring will not light up continuously but **with regular short interruptions**. This indicates that the mute function is active.

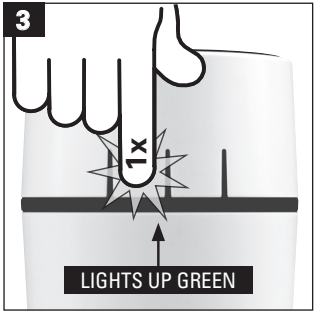
Switching the mute function on / off (for an indefinite period)



Press the **select button once** in the default state.



When the mute function is active, the LED light ring flashes **green** at regular intervals.

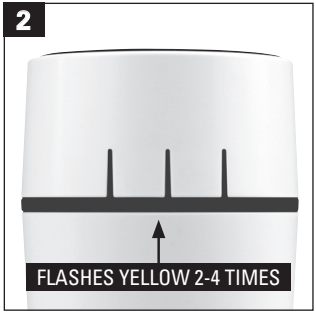


Special feature with activated Mute function: When the night light is set to green the LED light ring does not shine continuously, but with regular short interruptions. This is how you recognise that the mute function is active.

Press the **select button** to unmute. To confirm, the LED light ring lights up **green** while the button is pressed.
Special feature: When the night light is set in green, the LED light ring goes out as confirmation when the button is pressed.

Starting / stopping the snooze function for 1, 3, 9 hours

In the default state, press the **select button 2, 3 or 4 times** at an interval of one second to activate the snooze function for **1, 3 or 9 hours**.

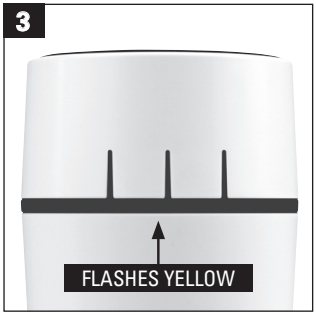


The LED light ring then flashes **yellow 2 to 4 times** to confirm, depending on how often you have pressed the **select button** (see table).

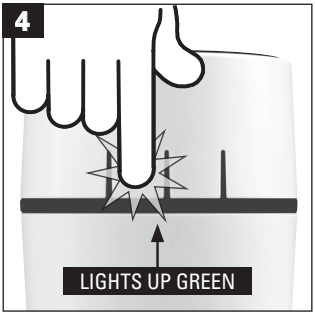
Unique feature: When the **night light is set to yellow**, the LED light ring does not flash to confirm. Instead, it goes out 2 or 4 times depending on your selection.

- With the **snooze function** you can **temporarily mute** the wireless doorbell in advance, i.e. the wireless doorbell will automatically switch back to active mode.
- You can also **manually end** the **snooze function** at any time before the set time has expired.
- The indefinite **mute function**, on the other hand, must be **terminated pro-actively**.

Starting / stopping the snooze function for 1, 3, 9 hours



While the snooze function is active, the LED light ring flashes **yellow** at regular intervals or regularly goes out briefly when the yellow night light is on.



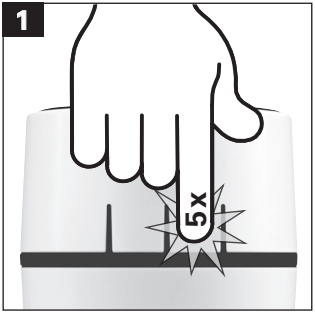
Press the **select button** to end the snooze function early. To confirm, the LED light ring lights up **green** while the button is pressed.

Exception: If the night light is set to green, the LED light ring goes out. LED light ring goes out as confirmation during the keystroke.

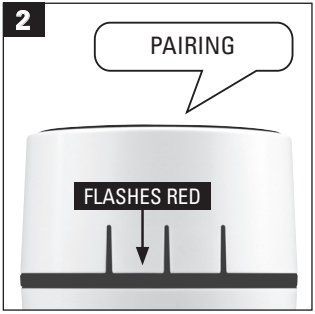
Overview of snooze function

Pressing the button	Mute function	Flashing of the LED light ring
2x	for 1 hour	2x yellow
3x	for 3 hours	3x yellow
4x	for 9 hours	4x yellow

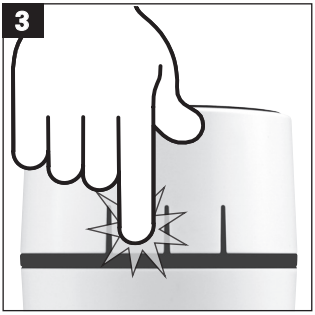
Pairing the wireless doorbell and the wireless doorbell button



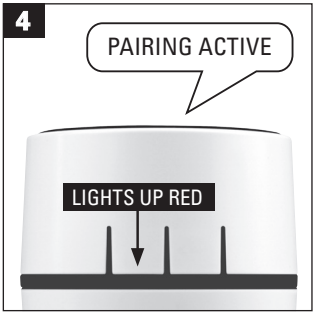
Press the **menu button 5 times** in the default state.



To confirm, the LED light ring **flashes red**. You will hear the device say "pairing".

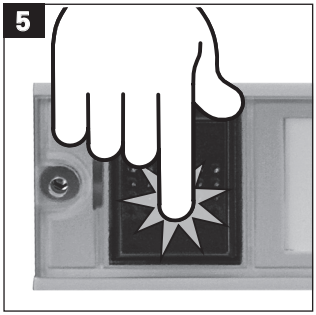


Press the **select button within 7 seconds**.

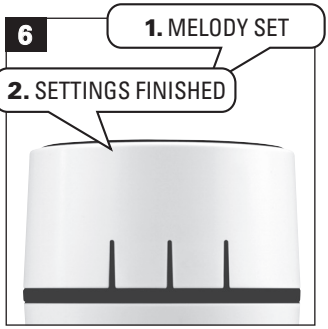


The LED light ring will **light up red** to confirm, and you will hear the device say "pairing active".

Pairing the wireless doorbell and the wireless doorbell button



Press the wireless doorbell button **within 30 seconds**.



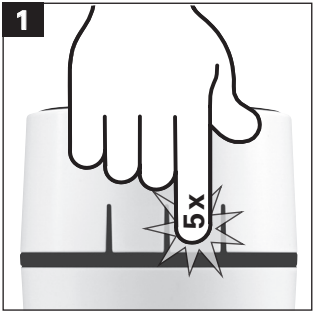
You will hear the melody set and the device say "settings finished". The wireless doorbell button is now paired with the doorbell.

The wireless doorbell returns to its default state at the end of the process. Repeat this process to pair additional wireless doorbell buttons.

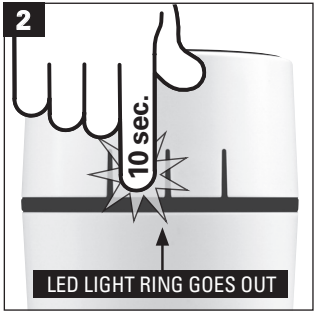
The wireless doorbell automatically returns to its default state:
- If you have pressed the select button and do not press a wireless doorbell button within 30 seconds.
- If you do not press the select button within 7 seconds after you have pressed the menu button 5 times.

Optional expansion option: You can pair additional wireless doorbell buttons with any number of wireless doorbells. Wireless doorbells can be paired with a maximum of 11 wireless doorbell buttons. Malfunctions due to other wireless doorbell buttons are excluded as each wireless doorbell button sends a unique code.

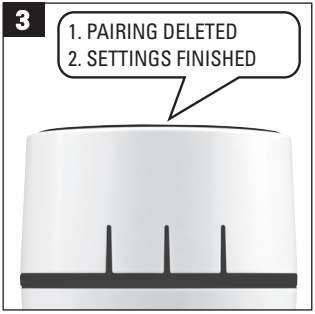
Disconnecting the wireless doorbell and wireless doorbell button



Press the **menu button 5 times** in the default state.



Press the **select button within 7 seconds** and **keep it pressed for 10 seconds**. To confirm, the LED light ring goes out.



You will hear the device say "pairing deleted" and then "settings finished".

After the pairing is deleted, the wireless doorbell will no longer respond when a wireless doorbell button is pressed.

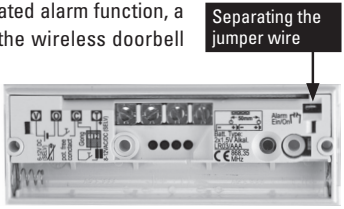
Note: All pairings are disconnected. Disconnecting individual wireless doorbell buttons and wireless doorbells is not possible.

Using the alarm function

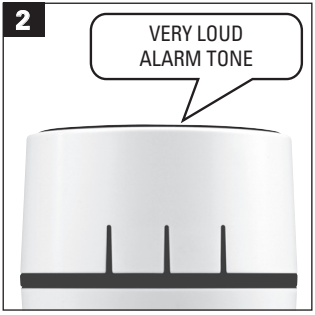
The alarm function can be used in combination with a wireless doorbell button type SE03 as a quickly deployable, flexible and above all **mobile in-house emergency call system**. In this case, the wireless doorbell is the alarm transmitter and the wireless doorbell button is the signal transmitter. A person in distress can conveniently use this to alert others.

Important: In order to use the integrated alarm function, a jumper wire must be separated in the wireless doorbell button.

The alarm function can only be used in combination with wireless doorbell buttons of the MISTRAL SE03 type.



Press and hold the wireless doorbell button for 3 seconds. The display on the wireless doorbell button **flashes red**.



After you release the button, an **alarm** sounds at the highest volume for 3 seconds.

Low batteries / keeping the settings

Keeping the settings of the wireless doorbell: Your custom settings (melody, colour of the LED light ring for the doorbell and night light, volume) are retained when you remove the wireless gong from the socket to plug it in somewhere else. The settings will be retained even after a power failure.

Checking the condition of the battery: Press the wireless doorbell button to check if the batteries provide enough power. If the LED of the wireless doorbell button flashes fewer than 6–7 times (7 is the maximum), the batteries should be replaced.

Low battery alarm: If the batteries of the wireless doorbell button are low, the device will emit 4 beeps after the melody. Change the batteries in due time to ensure proper function (wireless doorbell button type MISTRAL SE03 only.

The typical battery life for the wireless doorbell button is approx. 7 years with normal use.

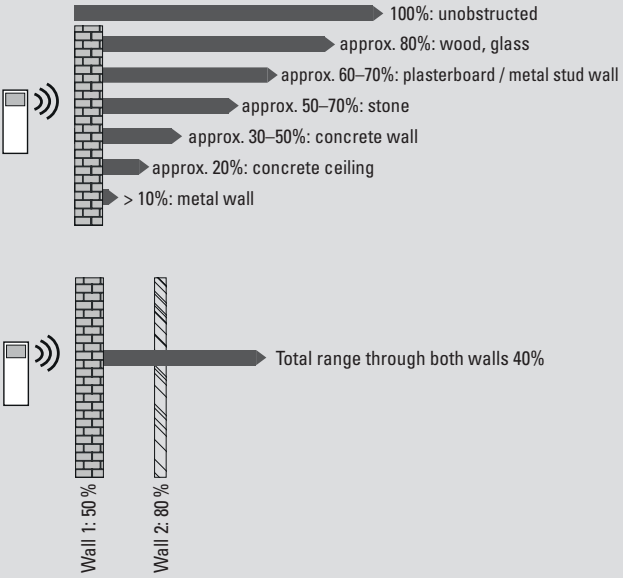
Always use batteries of the same type and with the same discharge status.

Wireless range

The wireless plug-in doorbell set has a maximum range of 500 meters in the open, provided that the wireless doorbell button is not mounted on metal.

Note: Walls, doors, metal parts, etc. can significantly reduce the range.

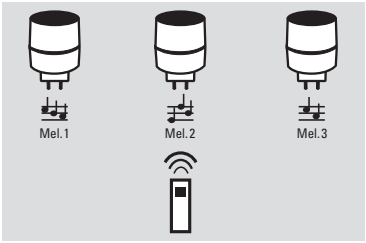
Range reduction of various materials



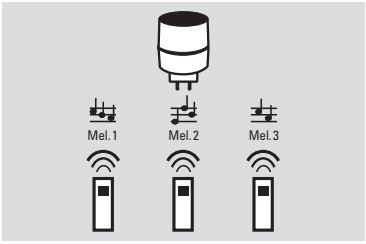
Combination options / networking

The illustrations show some of the many possible combinations. Among other things, each wireless doorbell can be controlled individually or centrally.

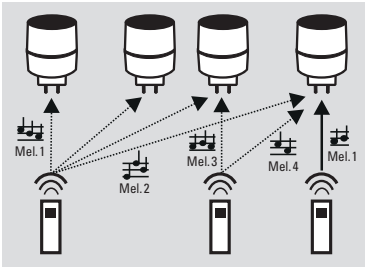
Central ringing
A wireless doorbell button can send a signal to any number of wireless doorbells: One wireless doorbell button is paired with several wireless doorbells in different rooms.



Individual ringing
Up to 11 wireless doorbell buttons can send a signal to one wireless doorbell: Several wireless doorbell buttons on various doors/ gates are paired with one wireless doorbell in a room.



Matrix ringing
Several wireless doorbells can be sent signals individually. Several wireless doorbell buttons on different doors/gates are paired with several wireless doorbells in different rooms – even multiple times.



Technical data

Wireless plug-in doorbell	
Colour	White
Wall mounting	No
Radio frequency	868.35 MHz
Ring differentiation	11
Volume	Max. 83 dB(A) depending on the melody
Dimensions	Ø 60 mm x 95 mm incl. plug
Power supply	100–240 V, 50/60 Hz
Temperature range	5 to 40 °C
Use	In dry rooms only

Wireless doorbell button	
Colour	White
Wall mounting	Yes
Radio frequency	868.35 MHz
Maximum transmission strength	<25 mW
Range	500 m
Dimensions	36 x 100 x 17 mm
Power supply	2 batteries 1.5 V (type AAA)
Protection class	IP54
Use	Indoor/outdoor
Temperature range	-15 to 50 °C

Errors – Causes – Help

1. The LED of the wireless doorbell button flashes after pressing, but the wireless doorbell does not respond.

1.1 The wireless doorbell does not have adequate power supply. Check if the socket works by using another device.

2. You hear four beeps after the melody

2.1. The batteries in the wireless doorbell button do not have the required power. Insert two 1.5 V batteries (type AAA).

3. The LED of the wireless doorbell button does not flash after pressing.

3.1. The batteries in the wireless doorbell button do not have the required voltage. Insert two 1.5 V batteries (type AAA).

3.2. The batteries are inserted incorrectly (wrong polarity).
Insert the batteries with the plus symbol in the direction of the engraved "+".

4. The wireless doorbell button cannot be paired with the wireless doorbell.

4.1. The batteries in the wireless doorbell button do not have the required voltage. Important: The LED of the wireless doorbell button must flash 6-7 times (7 is the maximum). If the LED flashes only 5 times or fewer, for example, the batteries are running low and must be replaced.

4.2. You waited too long after pressing the menu button before pressing the select button. Press the select button within 7 seconds after pressing the menu button.

Declarations of conformity

We hereby declare that this product complies with the basic requirements and other relevant regulations of Directive 2014/53/EU.

Depending on the device type, tested in accordance with the relevant standards EN 3000220-2, EN 301489-1, EN 62368-1:2016, EN 55022, EN 50581

☐ RED Directive 2014/53/EU

☐ EMC Directive 2014/30/EU

☐ RoHS Directive 2011/65/EU

☐ WEEE Directive 2012/19/EU

EC declaration of conformity: see www.funkgong.de

Countries: for all EU countries

Transmission frequency 868.35 MHz

Disposal and recycling

Electrical devices with this label must be collected separately and recycled in an environmentally friendly manner.

Electronic waste and batteries (if used) must NOT be disposed of with household or commercial waste! Only dispose of unusable or discarded electrical devices via the return and collection systems or via the manufacturer or importer.

Warranty and liability

GROTHE GmbH wireless doorbells are manufactured using state of the art technology and are subject to 100% quality control.

If, however, a malfunction still occurs on your device, GROTHE GmbH provides a warranty to the following extent.

1.) Our warranty includes the repair or new delivery of a device if the device is demonstrably deficient in function or material.

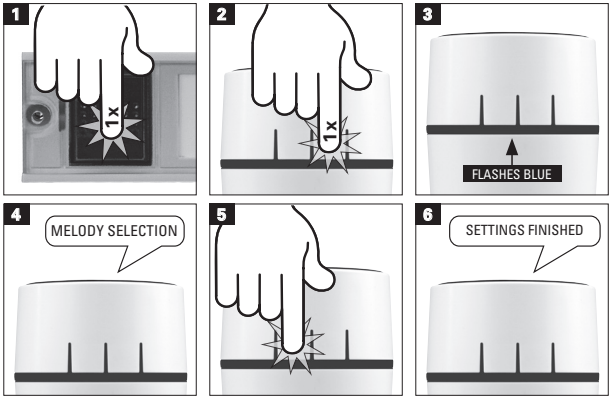
2.) The warranty does not cover natural wear and tear or transit damage or damage resulting from failure to comply with the installation instructions or improper installation. The warranty is automatically void if the device is opened after a fault is found.

3.) The duration of the warranty is 24 months from the date of purchase of the device by the end user. Compliance with the warranty period must be demonstrated by providing evidence of the date of purchase by means of the enclosed invoice, delivery note or a similar document.

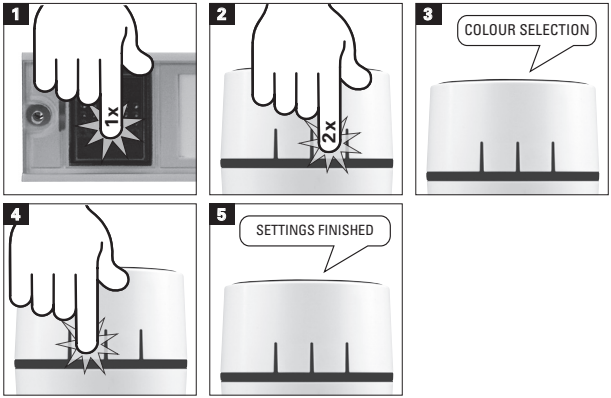
In the event of a defect, please return the device with the attached description of the defect to the seller's address with the above documents.

Quick guide

Melody selection

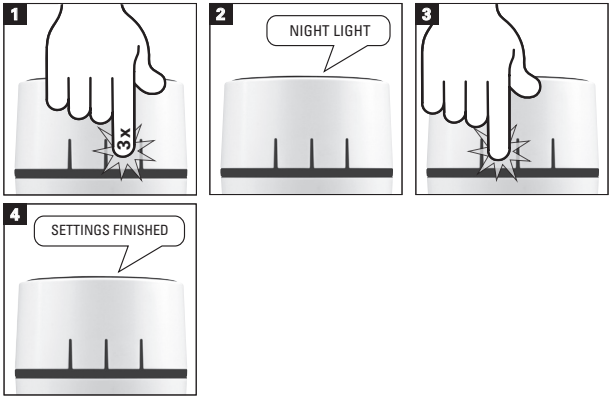


LED light ring colour selection

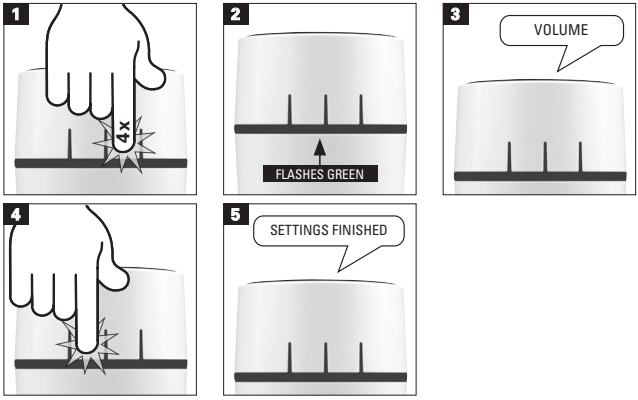


Quick guide

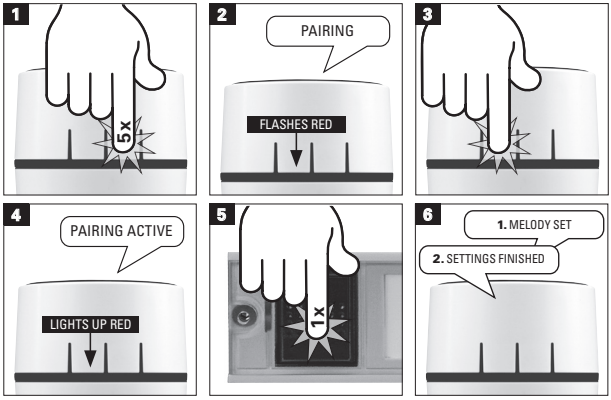
Night light



Volume



Pairing



Muted/snooze

Overview of snooze function

Pressing the button	Mute	Flashing of the LED light ring
2x	for 1 hour	2x yellow
3x	for 3 hours	3x yellow
4x	for 9 hours	4x yellow

The statutory warranty period applies. Excluded from this warranty are defects that have occurred due to improper handling, improper use or disregard of the installation and operating instructions.

Furthermore, the manufacturer reserves the right to change the contents of this manual without prior notification. The information contained in this manual has been carefully prepared and checked, but the manufacturer does not accept any responsibility for its use. The same applies to the persons or companies that have been involved in the preparation and production of this manual.

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V1 01-2021