

EN

CT-DECT Multi M7

Operating manual

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1 General operating and safety instructions



Ensure that you comply with national safety and accident-prevention regulations as well as the warnings and safety instructions in this document to avoid material damage and injury to persons when using the device.

Before using CeoTronics products, read the relevant operating instructions thoroughly. If in doubt, ask our technical staff.

Keep this document for later use.

Use only CeoTronics products without signs of damage or wear.

Have any servicing on CeoTronics products carried out only by CeoTronics or specialist workshops authorised by CeoTronics. In all other cases, our warranty and liability for the product will automatically lapse.

Keep CeoTronics products out of the reach of children and any other persons who are not familiar with handling and operating them.

CeoTronics products may only be used for the envisaged specific applications.

Safe operation is contingent on clean devices. Ensure that the devices are clean and in good condition at all times.

Equipment damage



If equipment supplied to you by CeoTronics is to be taken out of service and no longer required, you may return it to CeoTronics. We will send the end-of-life equipment for recycling and/or environmentally compatible disposal on your behalf.

Do not immerse a CeoTronics product in water, unless it is expressly intended for this purpose.

Connect or disconnect CeoTronics accessories to or from a device only when the device is switched off, unless otherwise described in the operating instructions.

When using devices designed for outdoor use, always keep the devices closed when outdoors (e.g. CT-DECT Case) and cover unused ports with the appropriate caps – if available.

Do not store CeoTronics products outdoors or in damp ambient conditions but always in a clean and dry place at normal air humidity. CeoTronics products must not be stored in areas with a temperature of over +80 °C (+176 °F), e.g. on the parcel shelf of a car in summer. Unless otherwise indicated, the following temperature ranges are allowed for CeoTronics products: Operation -10 to +55 °C (+14 to +131 °F), storage -40 to +80 °C (-40 to +176 °F).

Ensure that no moisture penetrates the inside of the device during cleaning. Do not use solvents (e.g. benzine, alcohol, etc.) for cleaning! Safe operation is contingent on clean devices. Ensure that devices (microphones, plug connectors, etc.) are always clean and in a good condition.

Risk of injury from connection leads!

When using CeoTronics products that are equipped with connection leads, ensure that the leads do not get caught up in operational machinery or wheels.

Risk of injury from high speaker volume!

Please note that some audio devices (e.g. radios) can emit very loud signal tones as soon as the devices is switched on. Some devices generate different a variety of tones at different volumes. It may be necessary to adjust the volumes of the different tones separately. These tones could damage your hearing if they are set too high. It is therefore important to adjust the signal tone volumes to the desired levels before using CeoTronics accessories. Follow the audio device manufacturer's operating instructions to adjust the signal tones.



Receiver volumes in excess of 85 dB(A) are possible with a range of CeoTronics products but these can be controlled by the user for safety reasons. After switching on the communication system, set the receiver volume to approx. 1/2 of the available volume and then test the speaker volume, e.g. by opening the squelch on the radio device.

Do not set the volume any higher than necessary. Very high volume settings may damage hearing, especially over extended periods of use. At high volumes or noise levels, wear additional earplugs. If in doubt, ask your occupational health and safety officer or company doctor.

Interference with road traffic!

Do not leave CeoTronics products lying around loose in cars, e.g. on the parcel shelf. Stow the products in a suitable, safe place in the car so that they do not present a danger to you or your passengers in the event of an emergency stop.

When driving a car, do not operate a radio because it may distract you from other traffic and never use a CeoTronics product (headset, in-ear headsets, induction receiver etc.) that impairs your hearing.

Interference with flight operations!

When on board an aeroplane, always keep transmitter/receiver devices switched off. Operation of a transmitter/receiver could affect the safety of the aircraft and is therefore prohibited. Never operate electronic devices on board an aircraft without the express approval of an authorised member of the on-board personnel.

Always remove the device after the aircraft intercom announcement. Never remove the warning label "REMOVE BEFORE FLIGHT" from CeoTronics products.

Interference with radio transmission!

Transmit only when necessary. Unnecessarily occupying a channel can prevent the transmission of vitally important information.

Danger of explosion!

CeoTronics products that are not intrinsically safe (explosion-proof) and therefore have no special explosion-proof designation must never be operated in potentially explosive environments. Potentially explosive environments include, for example, refuelling areas as well as storage and transport facilities for fuel and chemicals! Unprotected devices can cause explosions in those areas!

Strictly adhere to the applicable guidelines, regulations and requirements for your field of activity!

Risk of electric shock!

Always remove the mains plug from the mains socket first before opening mains-operated products (e.g. for service purposes)!

Only use CeoTronics products that are in an undamaged condition. In case of any kind of damage, stop using the CeoTronics product and have it repaired.

Interference with pacemakers!

If you wear a pacemaker, ask the manufacturer of your pacemaker for information about any interference that could be caused by high frequencies before operating a transmitter/receiver.

Non-rechargeable and rechargeable batteries!



Dispose of used batteries free of charge at your local battery retailer or collection point or return them to CeoTronics in accordance with environmental regulations. Observe the battery regulation (BattV).

Risk of injury from rechargeable batteries and non-rechargeable batteries!

Insert rechargeable batteries only after having read and understood all of the safety instructions. Rechargeable batteries carry potential risks, which could cause physical injury to persons and/or material damage.

Never try to open a rechargeable battery and never throw a rechargeable battery into a fire. Ensure that rechargeable battery contacts and charging sockets do not cause a short circuit (risk of fire and injury) due to bridging (bent-open paper clip, key ring or similar). In such cases, the warranty will be rendered void.

Transport spare rechargeable batteries in electrically non-conductive packaging material in order to avoid shorting the rechargeable batteries.

Keep rechargeable batteries away from persons who are not familiar with their handling and use (e.g. children).

Charging rechargeable batteries in potentially explosive areas is strictly prohibited – risk of explosion! Only charge and change rechargeable batteries in areas where no explosive gases, vapours, or dust could be present in the air.

Only charge rechargeable batteries using the correct, corresponding GeoTronics charger. Ensure the correct voltage and current data, also on the mains side (e.g. 230 V AC or 115 V AC).

Damage to charger or rechargeable batteries!

Never use the rechargeable battery charger for charging non-rechargeable batteries.

Chargers are neither waterproof nor dust-tight and need protection against water, rain and contamination. Only use chargers indoors in conditions of normal humidity and normal room temperature. Do not cover the ventilation openings.

Do not charge rechargeable batteries outdoors.

Radio software (firmware) – Risk of malfunction!

Please note that the operation of radio accessories may depend on which radio software version and software settings are used. Caution is required with software updates and/or changes to the software settings. If you update the software and/or change the software settings, check first on a radio whether the radio accessory is still functioning properly after these changes.

It may be the case that the receiver volume of some radios is unsatisfactory. In such cases, we suggest you check the parameters in the audio profile for your device to see whether it is possible to increase the receiver volume.

Please contact our customer advisers if you have any further questions on this matter.

Important information concerning the use of CT-DECT receivers/transmitters!

Legal notice for operation in the European Union

The transmitter of the CT-DECT device may only be used in the European Union when it has the following label:



Legal notice for operation in the USA

The transmitter of the CT-DECT device may only be used in the USA when it has the following label:



Legal notice for operation in Australia

The transmitter of the CT-DECT device may only be used in Australia when it has the following label:



Improper use!

It is the sole responsibility of the end user to check and decide whether the CeoTronics products are suitable for use and can be operated safely without risk during special applications, such as in potentially explosive environments, aviation, bomb disposal or other similar applications.

CeoTronics does not take responsibility for any material damage or loss nor injuries to persons caused by the uses described above or by any other improper use of the products.

Important Notes for operation of the CT-DECT System in the USA

Please note that any changes or modifications not expressly approved by the party responsible for compliance will void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

2 Purpose

The CT-DECT Multi M7 is a mobile communication device based on DECT wireless technology. It enables the user to make a

wireless connection to a CT-DECT network and enjoy virtually delay-free full-duplex voice communication.

2.1 Profiles

The device can be set to different profiles. Changing between profiles is described in the section “Setting a profile”.

A DECT system always includes a base station (FP) and at least one portable part (PP). The CT-DECT Multi M7 can be used as both a base station (FP) and a portable part (PP). Use as FP or PP can be selected via a configuration menu (Profiles).

When a CT-DECT Multi M7 is set up as an FP, it can establish a connection with up to four PP.

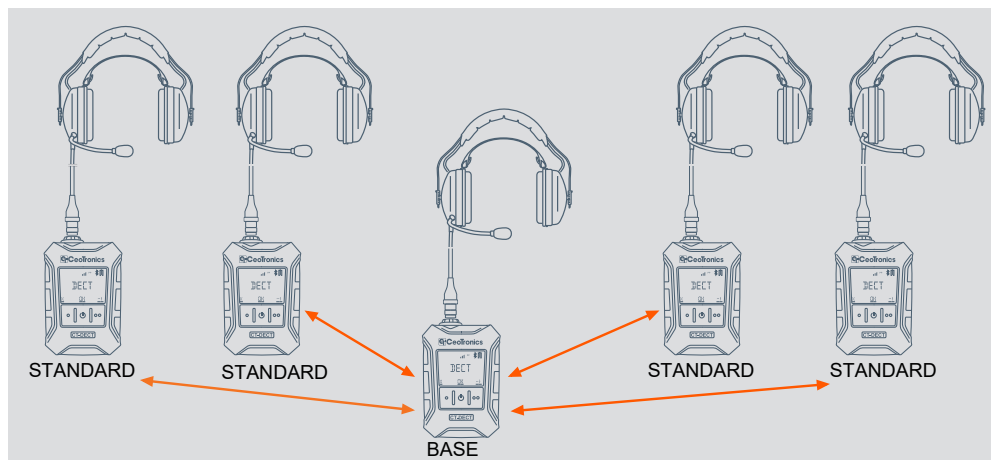
By selecting a corresponding profile, the user can adjust the role “Base”/“Portable part” in the radio system as well as the operating behaviour of the device.

Profile	PP/FP	Use
STANDARD	PP	General use of DECT as a standard device
BASE	FP	General DECT use as base station
EXPERT	PP/FP	Expert Mode – Extended access to all settings incl. Bluetooth option
GCBASE	FP	Use of DECT as a base station for dispatching aircraft (GateCom)
GCMULTI	PP	Use of DECT as a standard device for dispatching aircraft (GateCom)



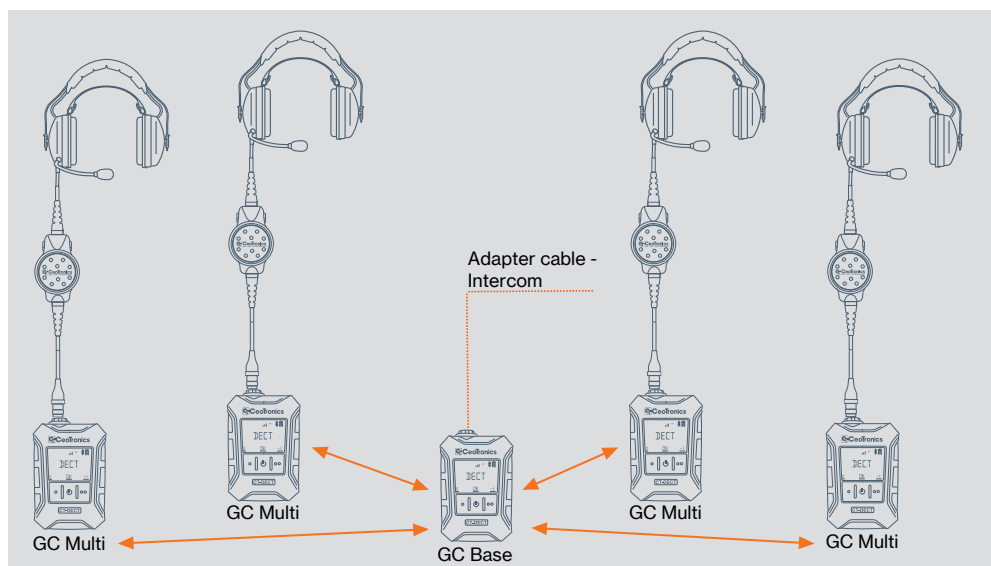
2.1.1 Example applications for profiles

Example application for profiles “STANDARD” and “BASE” – all users can communicate with one another full-duplex, i.e. – listening and speaking is possible without having to push any buttons.



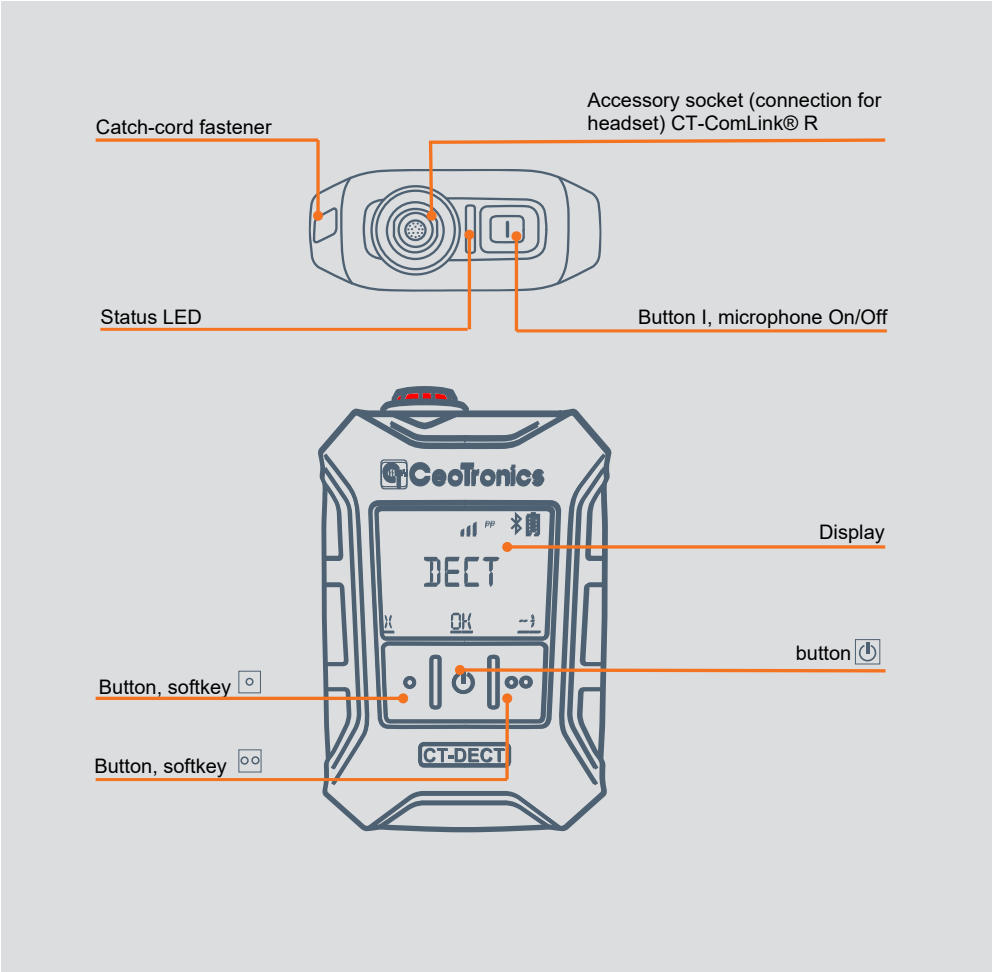
Example application for profiles “GC Multi” and “GC Base” – all users with profile “GC Multi” and the intercom users can communicate with one another full-duplex.

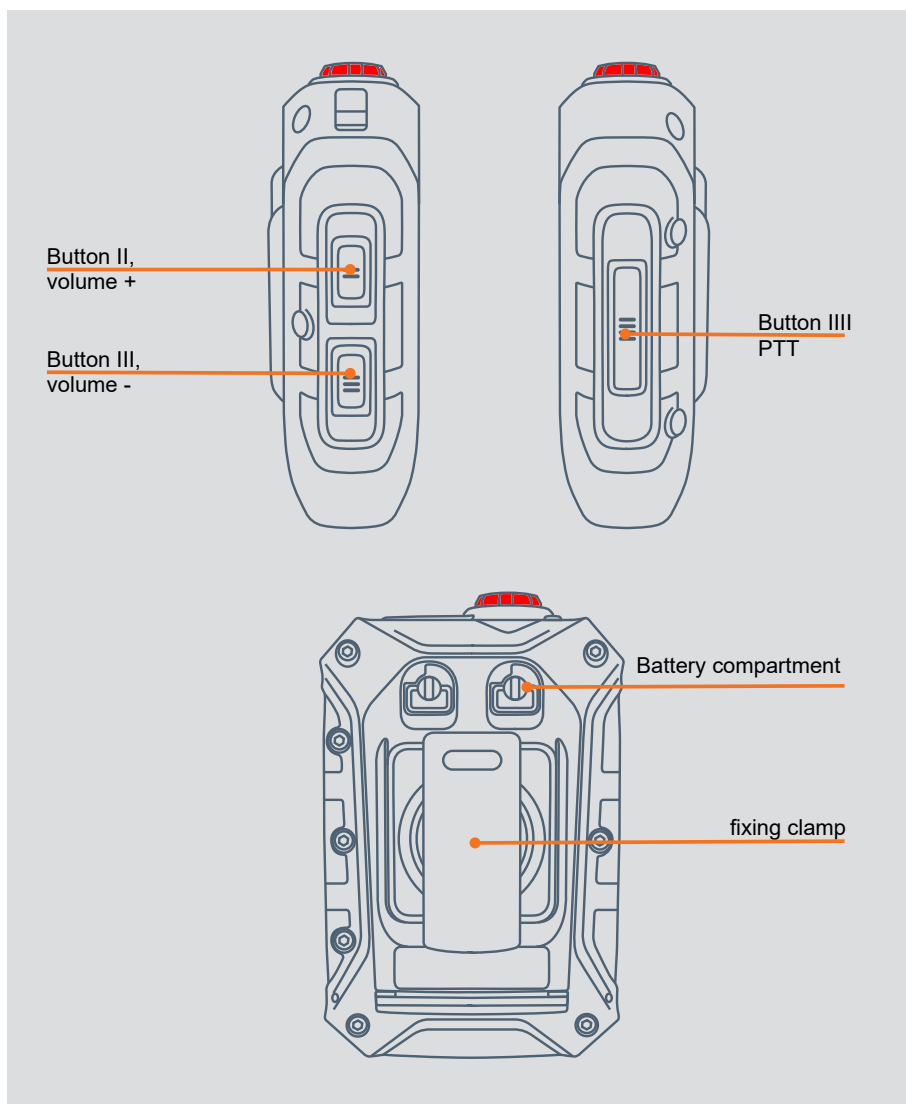
Matching adapter cables are available for various intercom applications. Please contact us to select the right adapter cable for your application.



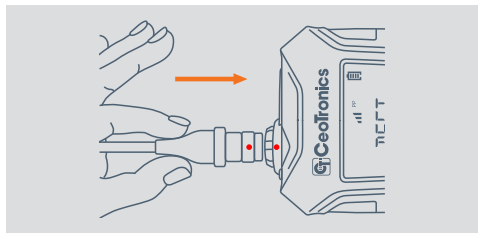
3 Technical description

3.1 Control elements

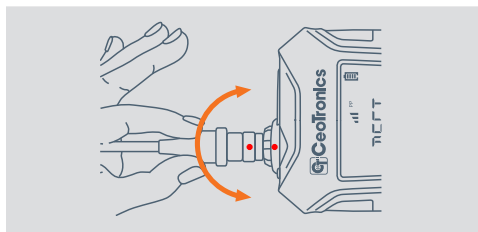




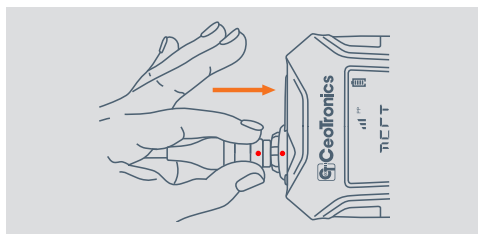
3.2 Plug connectors



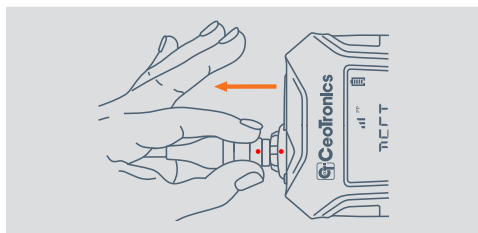
Place the plug against the socket. Ensure that the red dot on the plug and socket line up.



Turn the plug carefully on the socket until it slides into the socket slightly.



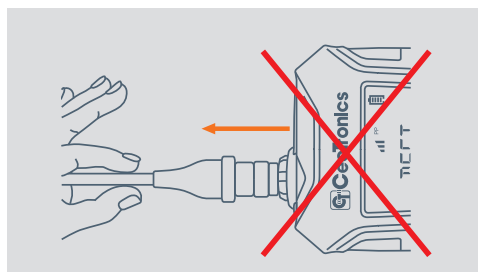
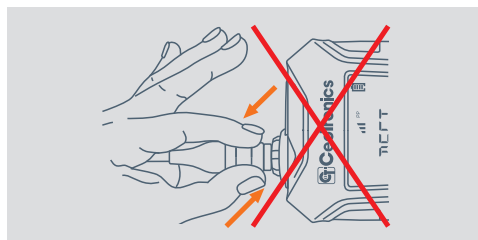
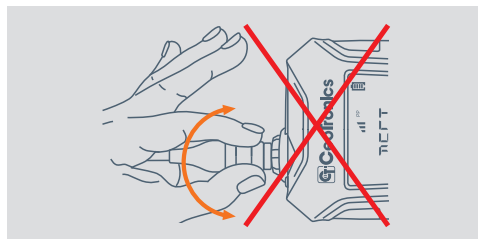
Push the plug into the socket until you feel the plug click into place.



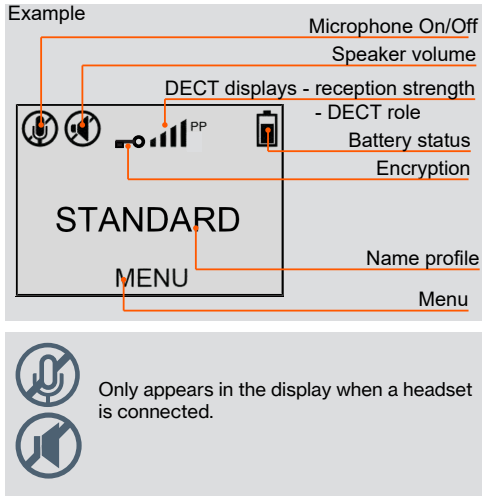
To release the plug connector, hold the plug only at the front and pull it out of the socket.

NOTICE

The locked plug connector must neither be twisted nor bent. Incorrect use can damage the plug connector. Never pull on the plug connector by the cable. Pulling on the cable can damage the plug connector.



3.3 Display



4 Operation



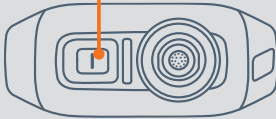
Switch on - Press and hold the On/Off button until the display starts – the currently selected profile appears in the display.

Switch off - Press and hold the On/Off button until “Switch off” appears in the display – press the button again to confirm

Switching off the microphone

The CT-DECT Multi M7 is equipped with a means to switch off the microphone.

Button I, microphone
On/Off



Microphone Off

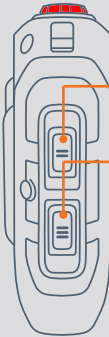


Microphone On



Speaker volume

The CT-DECT Multi M7 has 6 speaker volume levels. They can be adjusted with the volume buttons “+” and “-”. The volume levels are shown on the display in steps of two. The speaker can be set to level “Off” by pressing and holding button III (volume “-”).



Button II

Volume +

Button III

Volume -

Speaker “Off”



Level:



1-2



3-4



5-6

Menu control

The menu can be accessed by pressing the middle button. The menu is controlled and menu items are selected using the On/Off button and softkeys • and ••.



Select submenu /
Confirm selection



Change submenu /
Selection in submenu



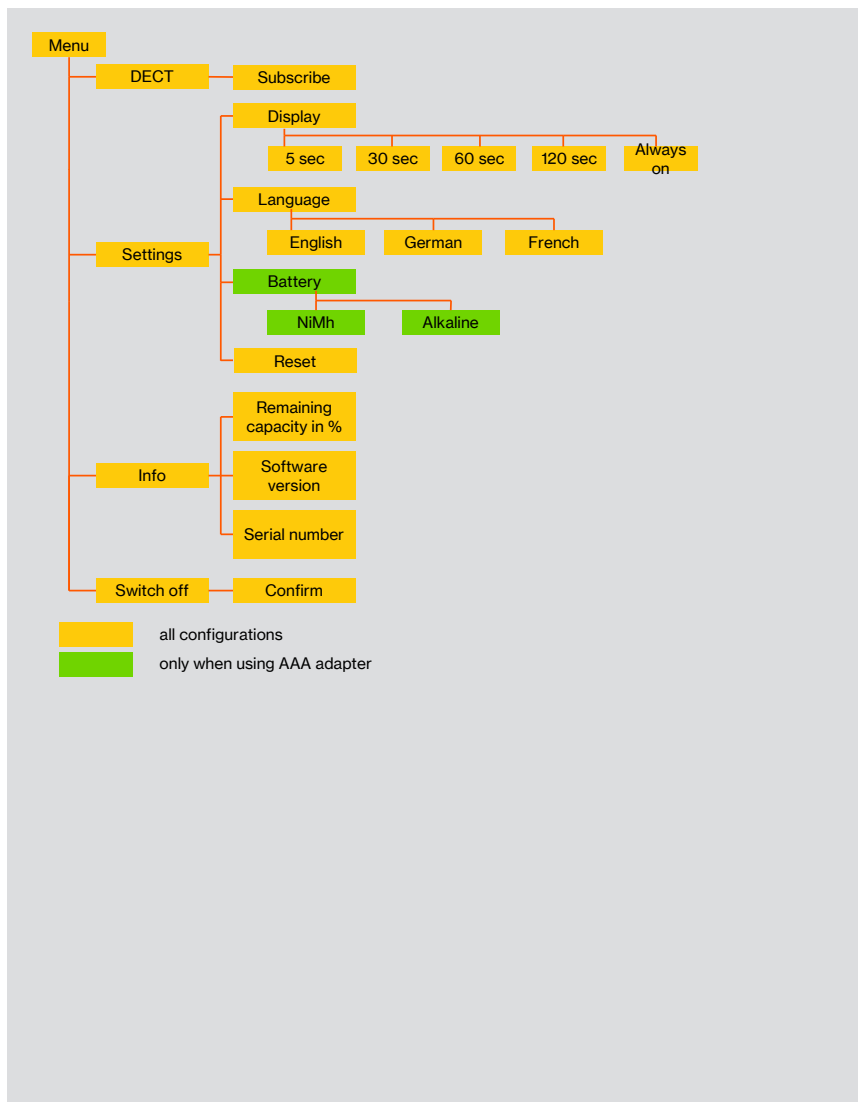
Exit submenu /
Selection in submenu



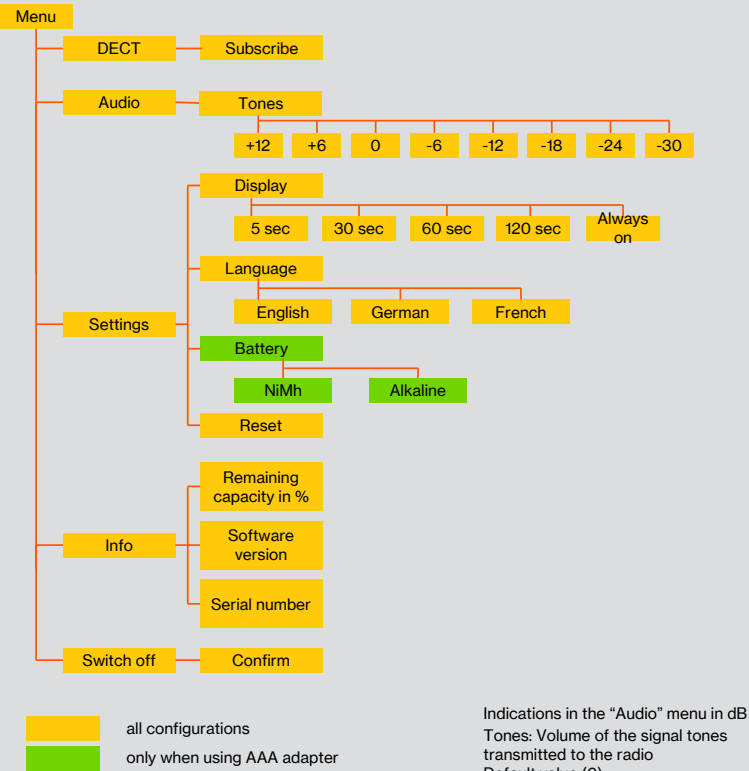
5 Menu

The menu enables various settings depending on the profile. The various options are shown in the following diagrams.

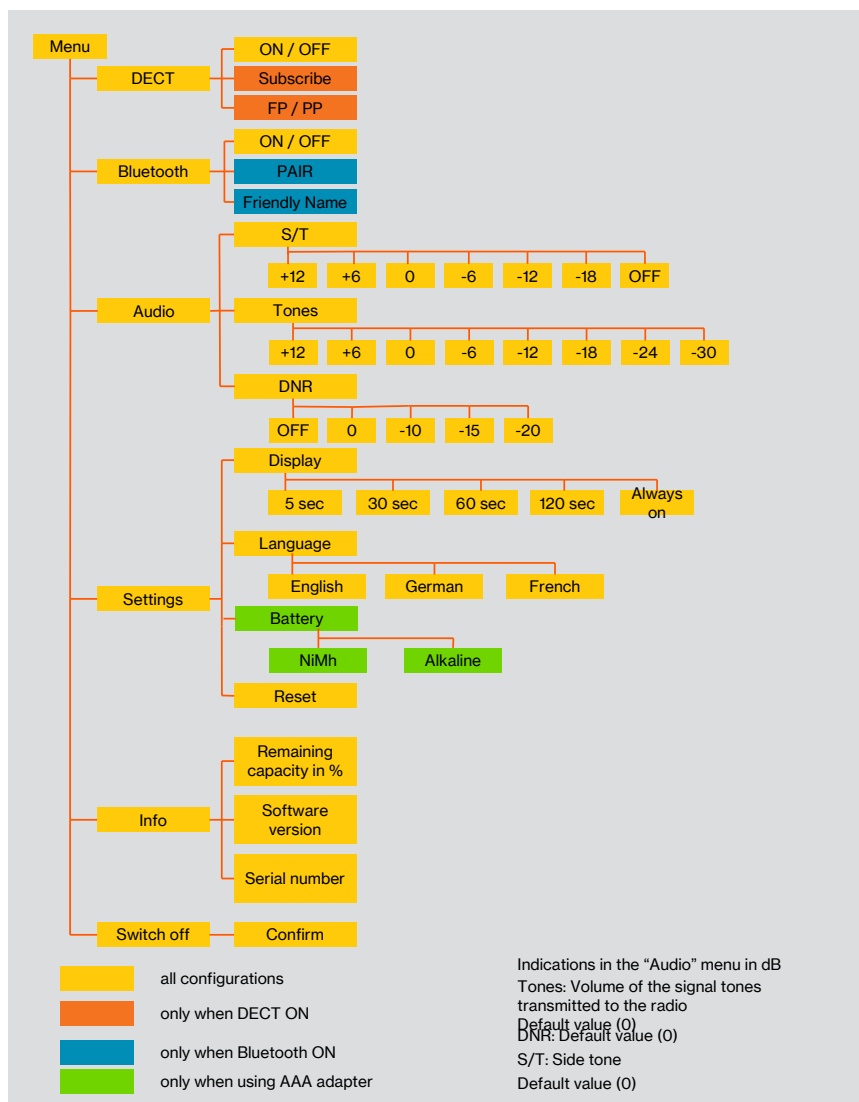
5.1 Profiles "Standard", "Base", "GC Multi"



5.2 Profile "GC Base"



5.3 Profile "Expert"



6 Setting a profile

You can change the profile as follows:

Switch off the device



Press and hold the On/Off button until “Switch off” appears in the display – press the button again to confirm.

Switch on the device



Simultaneously press the On/Off button and softkey **••** until “Profile” appears in the display.



Confirm the profile selection



Confirm selection by pressing the Off button again.

Select a profile



Select the required profile using the selection key.

Confirm and store the profile

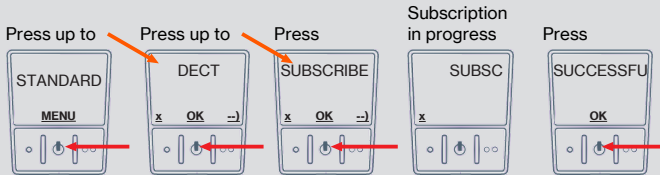


Confirm the selection by pressing the Off button again.

7 Subscription - DECT

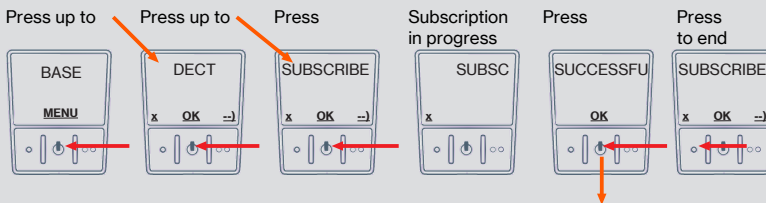
Only ever subscribe one CT-DECT Multi M7 "PP" to a CT-DECT device "FP" (e.g.: CT-DECT Case or CT-DECT Multi M7 "FP"). Place the CT-DECT device "FP" into subscription mode. Start the subscription procedure on the CT-DECT Multi M7 as follows: Perform steps 1 and 2 quickly in sequence to avoid a timeout.

Step 1 - Subscribe "Mobile user" (PP)



and...

Step 2 - Subscribe "Base" (PP)



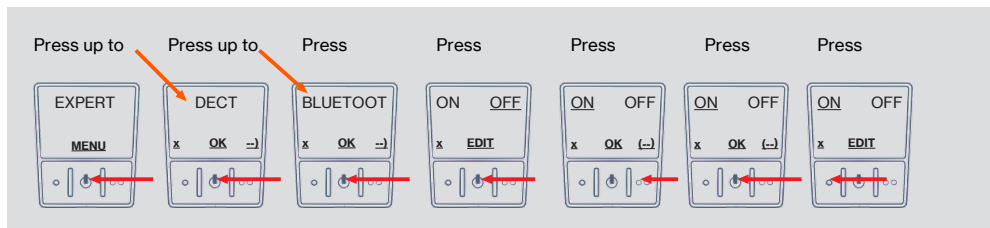
After successful subscription, further CT-DECT Multi M7 can be subscribed in the "FP" device. When a CT-DECT Multi is configured as "FP", up to 4 further mobile users can be subscribed.

When attempting to subscribe a fifth CT-DECT device, if all subscribed devices are switched on, the message "CONNECTED" appears in the CT-DECT Multi "FP".

8 Pairing - Bluetooth (Profile "Expert")

In the profile "Expert", a Bluetooth device can additionally be paired with the CT-DECT Multi.

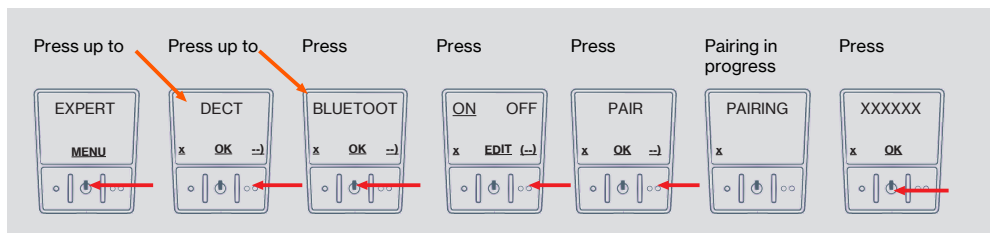
Step 1 - Activate the Bluetooth function in the CT-DECT Multi M7



Step 2

Put the desired Bluetooth device into pairing mode. Refer to the operating manual of your Bluetooth device for how to do this.

Step 3 – Pair



After confirming the pairing code, the name of the other Bluetooth device is shown.

The devices are now connected to each other via Bluetooth.

Should the pairing process take longer than 1 minute, the CT-DECT Multi M7 will cancel the process with the message "Time Out".

9 Operation of the Bluetooth® connection

General

If the user of a CT-DECT Multi M7 has made a Bluetooth® connection via a mobile phone, they can make the mobile communication directly as a single call (SingleCom); if a DECT wireless group is available, they can share this mobile communication with the entire group (GroupCom).

SingleCom: Only the user who has established the connection on their CT-DECT Multi M7 with their mobile phone can make the communication. They can extend this communication to a GroupCom function.

GroupCom: All users in the DECT wireless group can participate in the communication via the mobile phone. Only the user who has activated the GroupCom function can deactivate this function again.

For communication via Bluetooth®, the CT-DECT Multi M7 must be in the “Expert” profile, the Bluetooth® function activated and the mobile phone paired and connected with the CT-DECT Multi M7.



Once all prerequisites for a Bluetooth® connection are met, this indicator can be seen in the display of the CT-DECT Multi M7.

Accepting a call



During an incoming call, the calling telephone number scrolls across the display – press “Accept” to answer the call.

Holding a call



After accepting a call, you can phone in “SingleCom” mode. “SingleCom” mode can be identified by the display indicator “D/B”.



You can toggle between “SingleCom” mode and “GroupCom” mode by pressing softkey II. The “GroupCom” mode can be identified by the display indicator “D--B”.

Ending a call



You can end the conversation by pressing “End”.

Call repeat - Redial



You can call the number that was last used to make a call to the mobile phone by pressing “Dial”.

NOTICE

Ensure that the number of the last call made with the phone is the number you want to call. The number is not saved in the CT-DECT Multi M7, but makes use of the number stored in the phone memory.

10 Power supply – replacing the rechargeable batteries

Power is supplied by a LiPo rechargeable battery pack or by 3 x AAA cells which are inserted into the device in a special adapter. Either alkaline batteries or NiMH rechargeable batteries can be used in the adapter.

WARNING

Non-rechargeable and rechargeable batteries must not mixed together in the adapter. Mixing non-rechargeable and rechargeable batteries can damage the device.

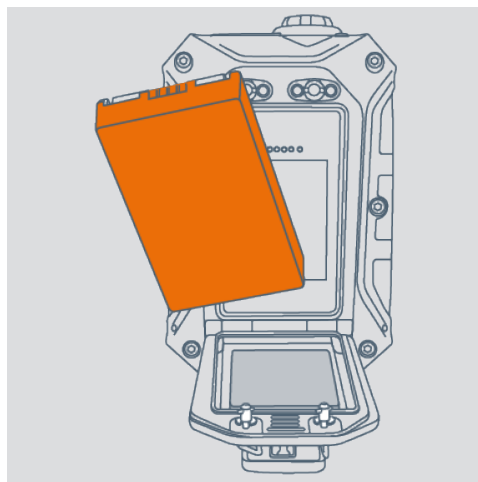
Depending on the ambient temperature, the headset used and the intensity of use (sending/receiving/standby), a LiPo rechargeable battery pack can deliver up to approx. 16 hours of operation, and NiMH AAA cells up to approx. 8 hours.

Replacing the rechargeable/non-rechargeable batteries – LiPo rechargeable battery pack or adapter with 3 x AAA cells

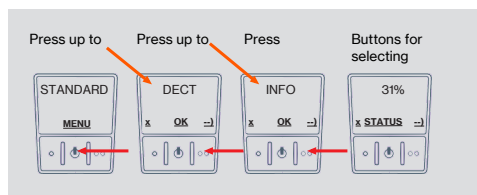
Open the battery compartment by turning the locks in the direction of the arrow.



Remove the rechargeable battery pack or the adapter from the device. When reinserting it, ensure that the contacts are at the top pointing towards the inside of the device.



Display remaining capacity



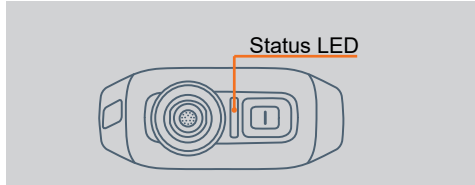
The remaining capacity can be viewed via the menu (see figure). The value shown is an estimate for the following types of non-rechargeable batteries and rechargeable batteries:

- LiPo rechargeable battery pack
(Art. no.: 4024002)
- Ansmann alkaline AAA battery
(Art. no.: 4006504)
- Panasonic eneloop AAA NiMh rechargeable battery
(Art. no.: 4008010)

The user of other types can produce different results. The Status LED provides a general, approximate display of the charge status.

Status LED of the rechargeable battery pack

The percentage values in the display show only the estimated remaining battery capacity and cannot simply be converted to the remaining operating time as this depends considerably on the use scenario.



green	approx. 34-100%	Remaining capacity
-------	--------------------	--------------------

yellow	approx. 10-33%	Remaining capacity
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red	approx. 5-9%	Remaining capacity
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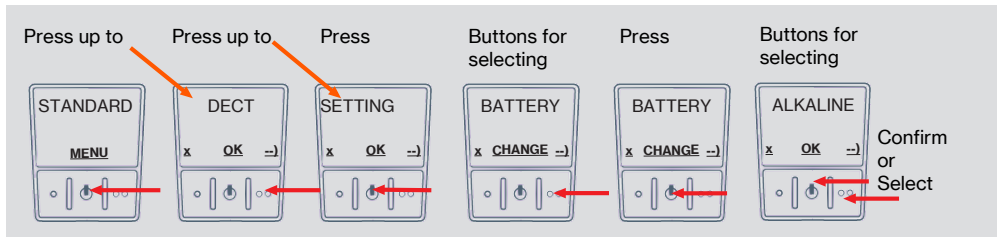
red flashing 2 sec cycle	approx. < 5%	Remaining capacity
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red flashing 200 ms cycle	shortly before shut- down	
---------------------------------	------------------------------------	--

NOTICE

When using the adapter, it is necessary to select between alkaline and NiMH batteries in the menu.

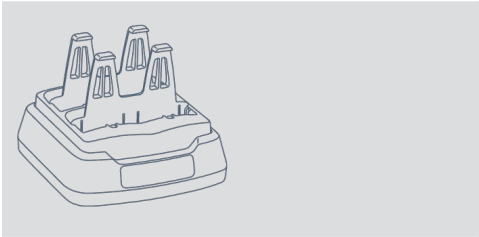
10.1 Battery selection



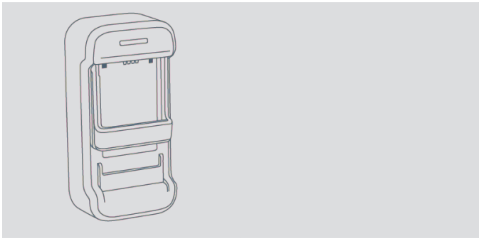
11 Accessories

Product	Article number
---------	----------------

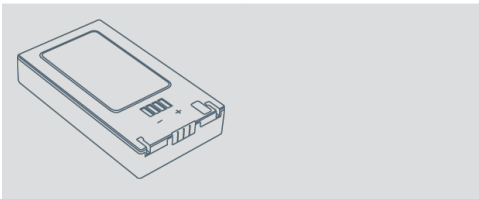
Four-slot charger for
LiPo rechargeable
battery packs



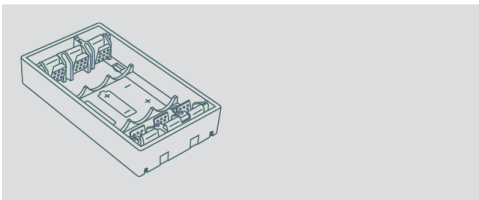
Single-slot charger 4024008C
for LiPo re-
chargeable battery
packs



LiPo rechargeable 4024006-AIR
battery pack 4024006-ROAD
4024006



Adapter for 3 AAA 4024001
cells



12 Care and maintenance

12.1 Condition check

Inspect your CeoTronic devices, in particular cables and connectors, regularly for possible damage or wear and have them repaired if necessary.

12.2 Cleaning

When cleaning, do not use alcohol or other solvents! Clean the device with plain water. If necessary, you can also use a mild soap solution, e.g. washing up liquid. If you want to disinfect CeoTronics devices, only use alcohol-free disinfectants. Clean the contacts of the plug connectors with a commercially available contact cleaner.

13 Abbreviations and definitions

Abbreviation/definition	Explanation
ASR	Ambient Sound Reception
CT-ComLink® R	generally used to connect a headset
CT-ComLink® B	generally used to connect a headset or the CT-InlinePowerPack
PTT	Push to Talk





Management
System
ISO 9001:2015

www.tuv.com
ID 1100004023

Certificate No.: 01100004023
(ISO9001)

Certificate No.: 01220004023
(ATEX, Directive 2014/34/EU)



Certificate No.: 461801
(PPE, Regulation (EU) 2016/425)



CeoTronics AG

Audio · Video · Data · Communication

Adam-Opel-Str. 6
63322 Rödermark (Deutschland)

Tel: +49 6074 8751-0

Fax: +49 6074 8751-676-265

E-Mail verkauf@ceotronics.com

