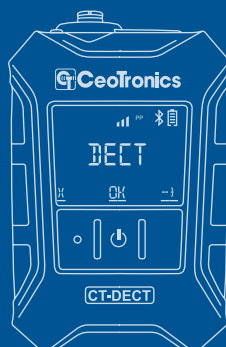
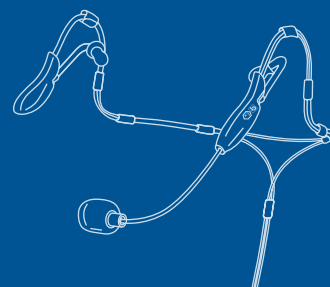
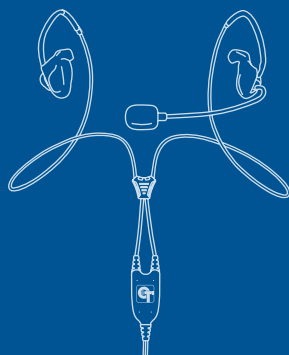


# CT-ComLink®

## System solutions





# CeoTronics – WHEN IT COUNTS

For over 35 years, CeoTronics have developed and produced innovative communication systems for demanding environmental and operating conditions. We are the leading manufacturer of multifunctional operating and control units (CT-MultiPTTs), mobile digital radio networks and terminal equipment (CT-DECT) as well as high-quality communication headsets and systems for professional use.

CeoTronics communication systems, including effective hearing protection and other protective functions, are vastly superior to simple hearing protectors because users can still communicate with each other even under the most adverse conditions. Whether working in noisy or dangerous environments for example or wearing personal protective equipment (PPE), CeoTronics systems offer more protection in the workplace, increased productivity, and efficiency.

## The CeoTronics product range

CeoTronics provides communication systems with long-term viability and services for a wide variety of application scenarios and can also develop bespoke solutions for you. Find out for yourself. We have a 100 % recommendation rating based on years of customer surveys.

## Certified and guaranteed

In February 2016, CeoTronics became the first company in the communications industry to be certified according to ISO 9001:2015. Then in 2018, CeoTronics successfully obtained certification according to the new PPE Regulation (EU) 2016/425. By 2002, CeoTronics was already successfully manufacturing according to the ATEX Guideline 94/9 EG for the first time. Certification according to the current Directive 2014/34/EU was successfully renewed at the beginning of 2019. All CeoTronics products have a 3-year warranty\*.

For more information visit: [www.ceotronics.com](http://www.ceotronics.com)

We especially recommend CT-ComLink® system solutions for:





# CT-ComLink® system overview

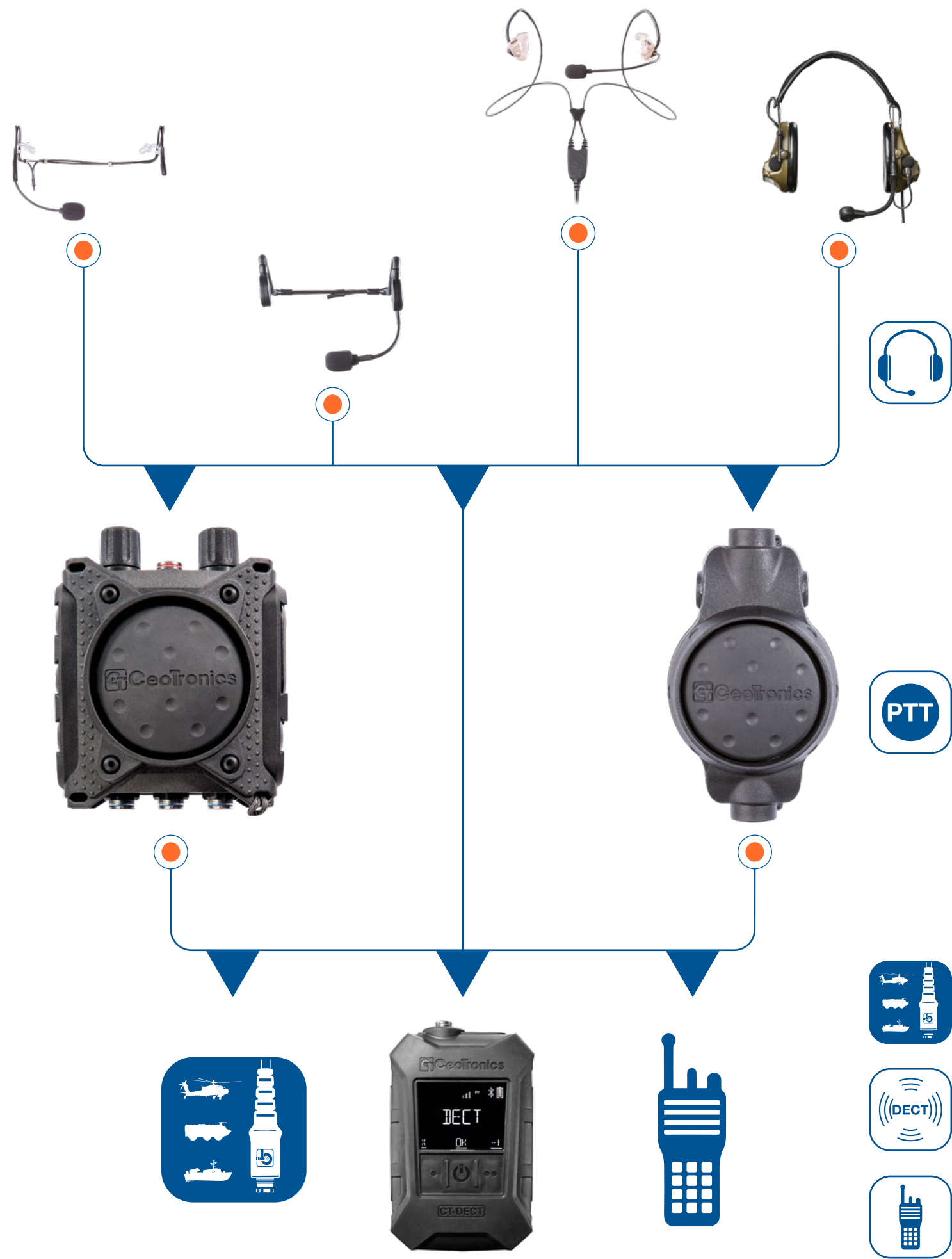


## The new CeoTronics technology: CT-ComLink®.

CT-ComLink® is future-proof. The technology is used across all the products in the range and combines the latest signal transmission with robust hardware, giving users maximum flexibility in choosing their headsets and radio equipment. For example, lightweight in-ear headsets or high-noise headsets, such as helmet systems for high-noise areas, can be connected. The combination of an extremely robust plug connection with break-away function (emergency unlock function) and CT-ComLink® technology allows connected headsets or radios to be detected and the optimal audio configuration to be set for perfect voice transmission.

CT-ComLink® technology also regulates the energy supply. The CT-MultiPTT 1C, 1C Plus, 2C and 3C require very little energy thanks to the latest circuit technology and, for example, can even draw the power that they need from the connected radio equipment. Thanks to CT power management, an optimised and long-lasting system runtime is guaranteed for all connected components.

Find out more about the new generation of CT-ComLink® products at:

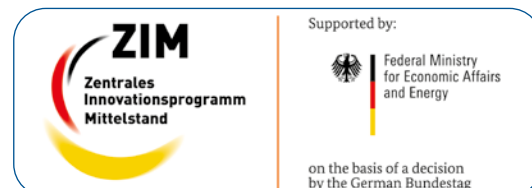






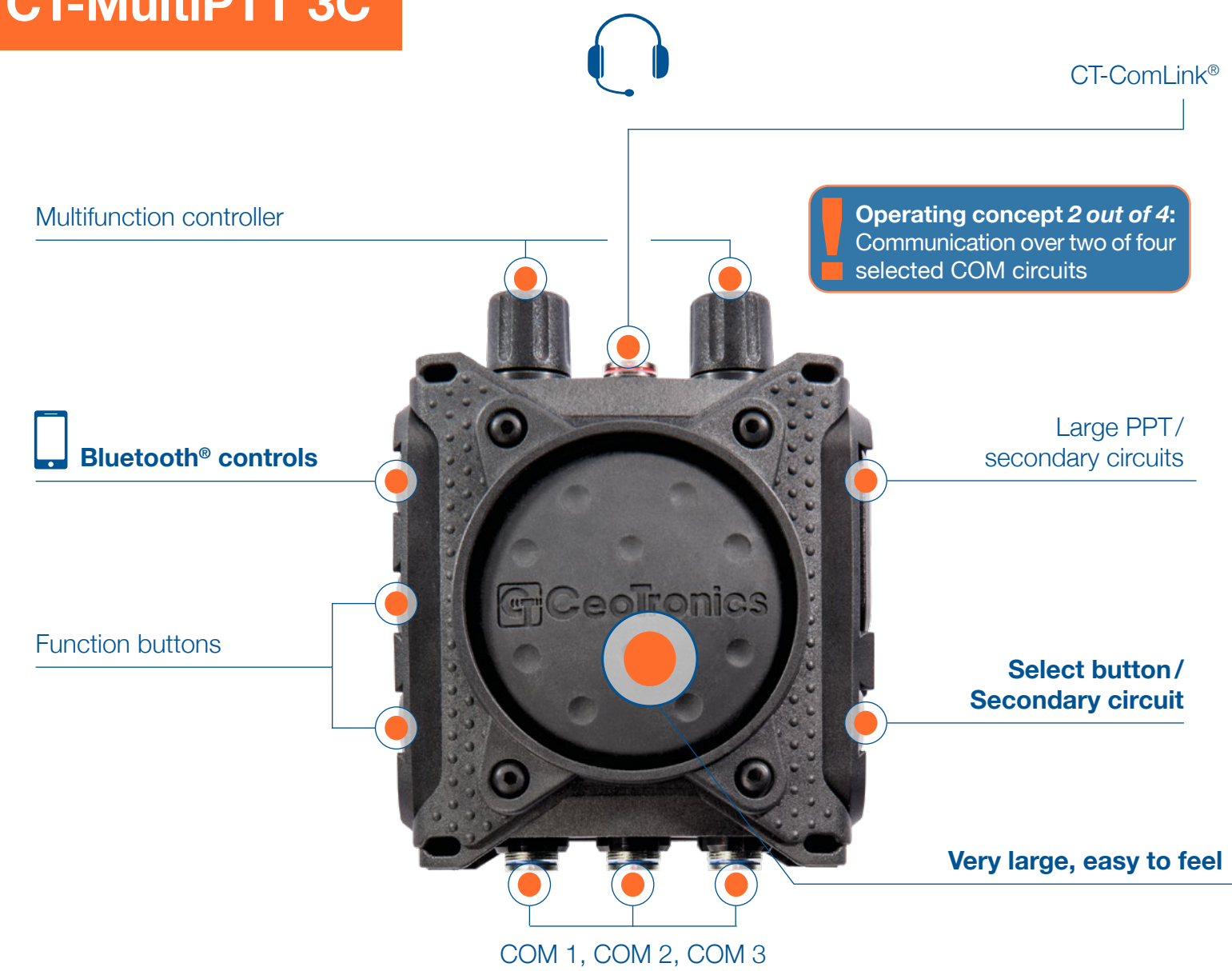
## CT-MultiPTTs

The CT-MultiPTTs with CT-ComLink® technology are central operating and control units that can coordinate multiple communication circuits at the same time independently of one another. Parallel “radio traffic” is possible on multiple channels – wired or via Bluetooth®, e.g. with a mobile phone.

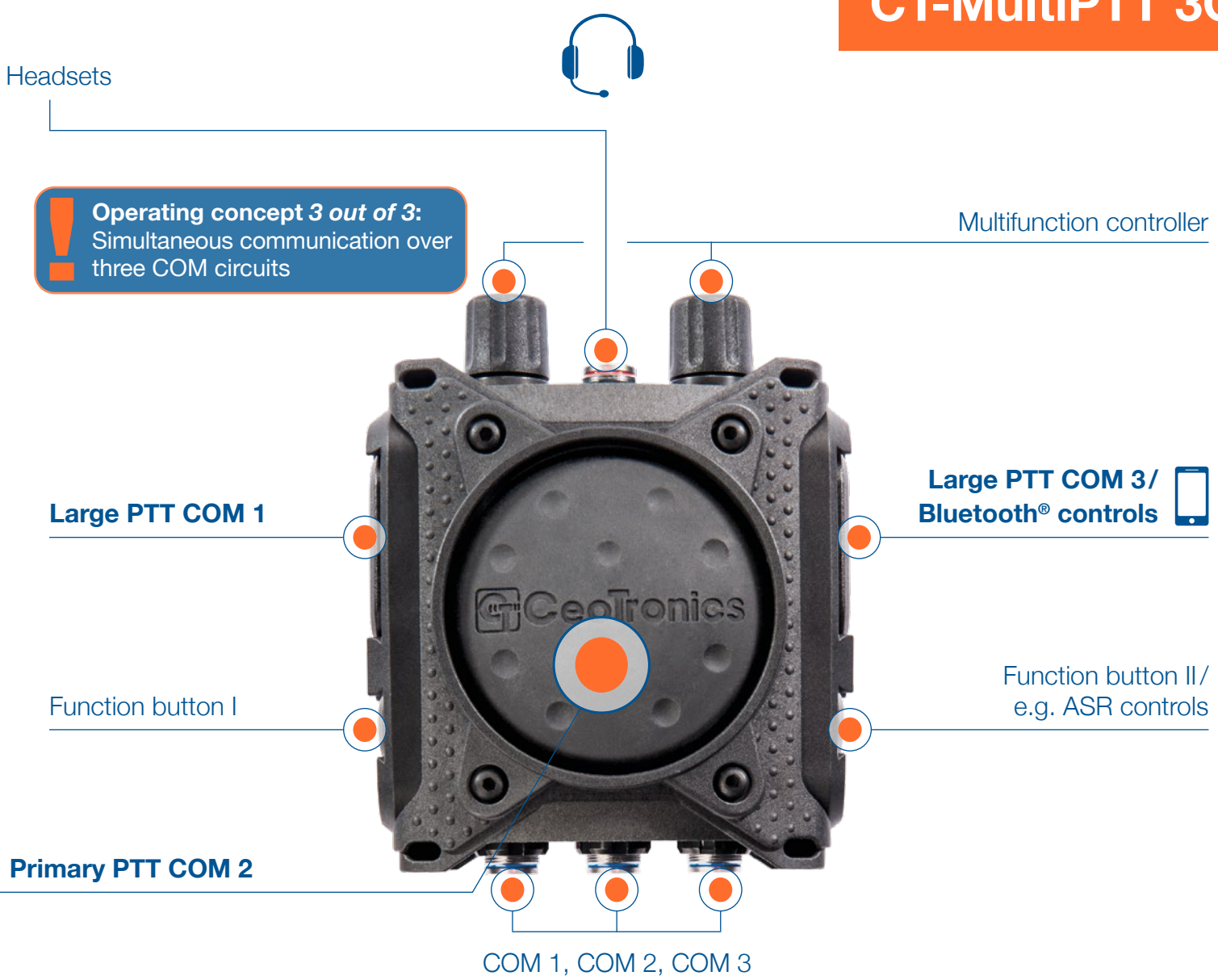




# CT-MultiPTT 3C



# CT-MultiPTT 3C



## CT-MultiPTT 3C:

**Operating concepts 2 out of 4 and 3 out of 3.**

Complex operations require innovative and flexible communication systems. The CT-MultiPTT 3C is a central operating and control unit made of non-reflective material that – depending on the operating concept – can coordinate up to three communication circuits at the same time independently of one another. Simultaneous “radio traffic” takes place on all channels if needed. A connection via Bluetooth®, e.g. to a mobile phone, is also possible.

The volume of individual communication circuits can be adjusted using the ergonomically/haptically optimal multifunction controller. This also applies to ambient soundreception for the CT-ClipCom Digital in-ear communication system, for example.

The combination of CT-ComLink® technology and the latest digital speech signal processing also makes it possible to separate channels securely and clearly, thus preventing the effect of unwanted or accidental crosstalk between radio channels/frequencies that are to be kept separate.

There is also the (optional) possibility to pair a CT-WirelessPTT MIL using the integrated Bluetooth® remote function for remote control.

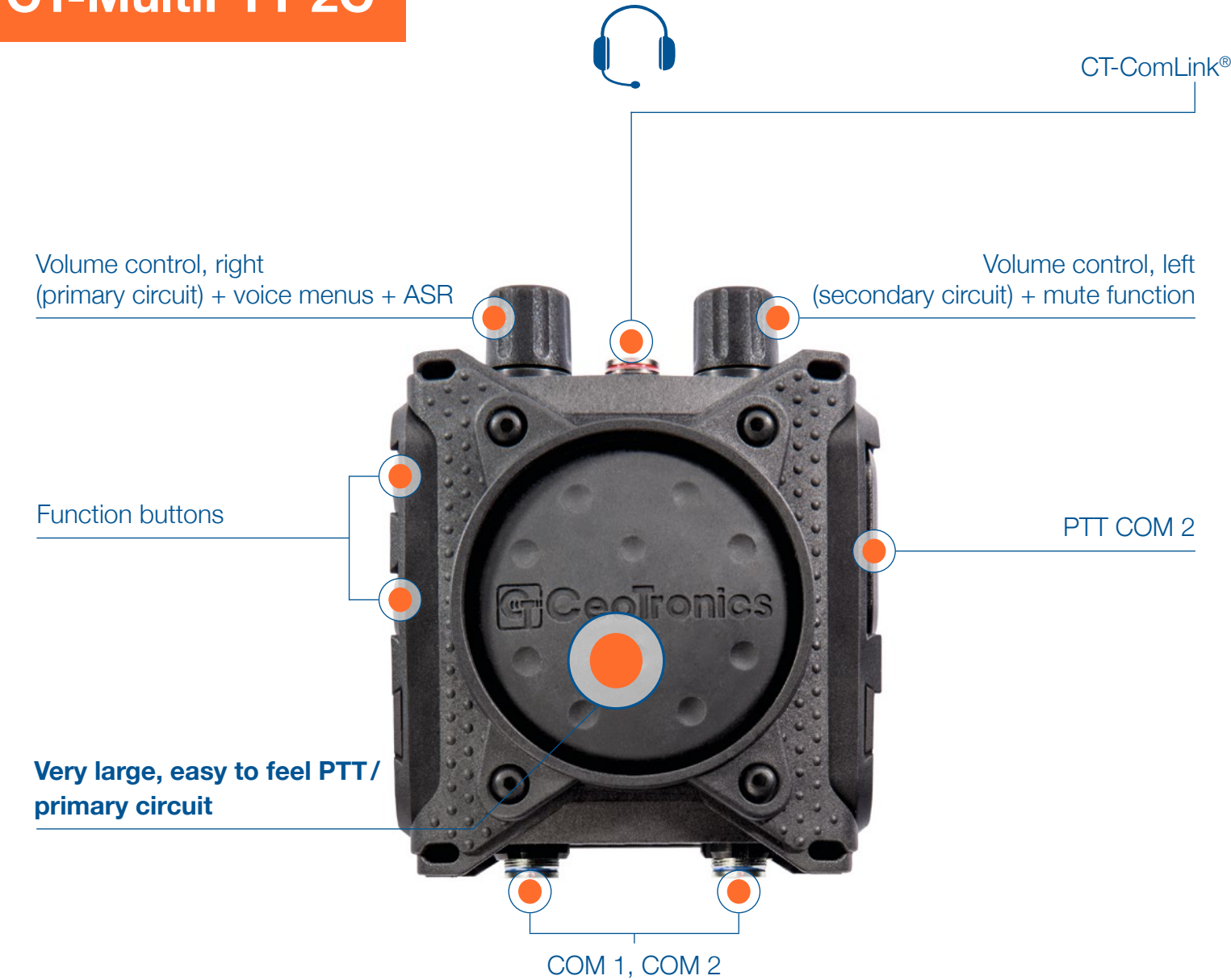
Please contact your field sales representative for more information about the 2 out of 4 or 3 out of 3 operating concepts.

Made in Germany

IP

MIL-Specs

# CT-MultiPTT 2C



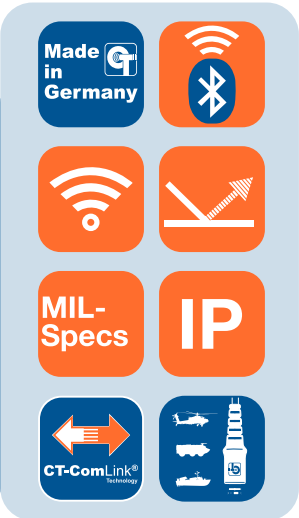
## CT-MultiPTT 2C:

Two wired communication circuits.

The CT-MultiPTT 2C provides two wired communication circuits that can be used in parallel. The combination of CT-ComLink® technology and the latest digital speech signal processing also makes it possible to separate channels clearly, thus preventing the effect of crosstalk.

The volume for the two communication circuits can be adjusted using the ergonomically/haptically optimal multifunction controller. If a CT-ClipCom Digital – the in-ear communication system from CeoTronics – is connected, the ambient sound reception integrated into the headset is also adjusted using the multifunction controller.

Two function buttons are also available for communication circuits COM 1 and COM 2.



# CT-MultiPTT 1C Plus



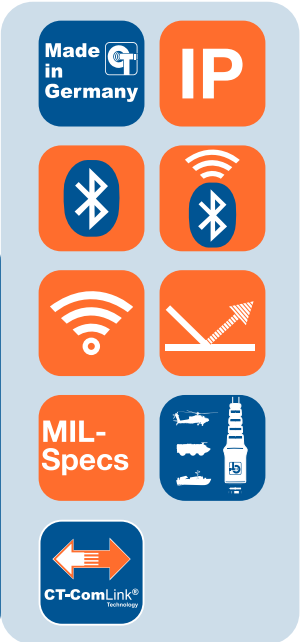
## CT-MultiPTT 1C Plus:

Two communication circuits including Bluetooth® technology.

The CT-MultiPTT 1C Plus is equipped with the CT-ComLink® technology and two communication circuits can be used in parallel. A COM circuit via Bluetooth® interface and a wired connection.

The two function buttons on the side also control the volume and ambient sound reception in addition to the Bluetooth® functions if a CT-ClipCom Digital in-ear communication system is connected.

A CT-WirelessPTT MIL can (optionally) be integrated using the Bluetooth® remote function for remote control.





# CT-MultiPTT 1C



**CT-MultiPTT 1C:**  
A communication circuit connected by cable.

The CT-MultiPTT 1C is a multifunctional and very robust PTT for operator who only need to control one communication circuit. In addition to the large PTT, the flexible “1C” has two more buttons, that can be used for a variety of functions, such as emergency calls or volume control.

The CT-MultiPTT 1C is equipped with a Bluetooth® remote function and can therefore also be operated remotely using a CT-WirelessPTT MIL.

Made in Germany

IP

MIL-Specs

CT-ComLink®

# CT-MultiPTTs

! Headsets from the CT-ComLink® family are compatible with all CT-MultiPTTs.



! The CT-MultiPTTs are equipped with extremely robust plug connections with break-away function (emergency unlock function) that detaches in an emergency at a defined pull force.



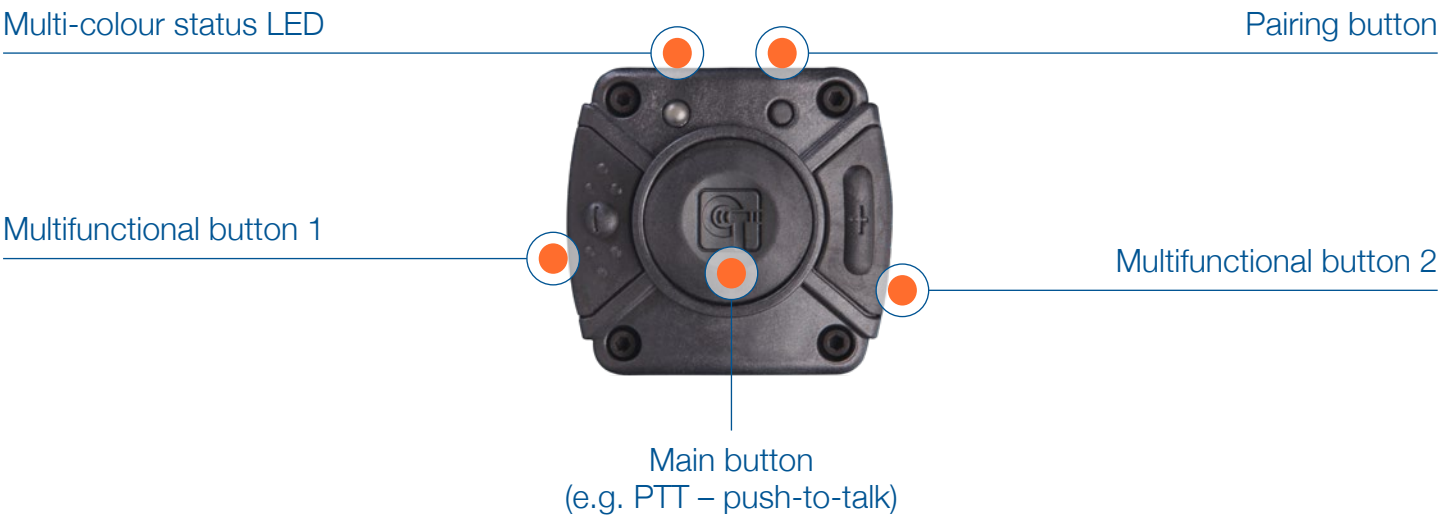
! CT-ComLink® radio connecting cables are compatible with all CT-MultiPTTs.



Picatinny rail:  
CT-WirelessPTT MIL

# CT-WirelessPTT MIL

Compatible with CT-MultiPTTs:  
3C, 2C, 1C Plus and 1C.



Single-/Double-Holder wrist strap



Single-/Double Picatinny-Adapter

## Convex:



CT-WirelessPTT MIL with  
PPT button curved outward

## Concave:



CT-WirelessPTT MIL with  
PPT button curved inward

## Low-noise/ concave:



CT-WirelessPTT MIL with almost  
noiseless PTT buttons

**!** The CT-WirelessPTT MIL is available in three versions with two different keypads (convex/concave).

## CT-WirelessPTT MIL:

Remote control via Bluetooth® remote technology.

The CT-WirelessPTT MIL is remote control in “finger-PTT” format for the CT-MultiPTTs 1C/1C Plus/2C and 3C. This enables the user to remotely control the connected communication equipment directly in mission-critical applications. The user can concentrate on their mission without distraction.

The CT-WirelessPTT MIL has a slightly larger PTT button and two smaller multifunction buttons which can be used to control functions such as volume on the connected communication equipment. The buttons provide clear tactile feedback.

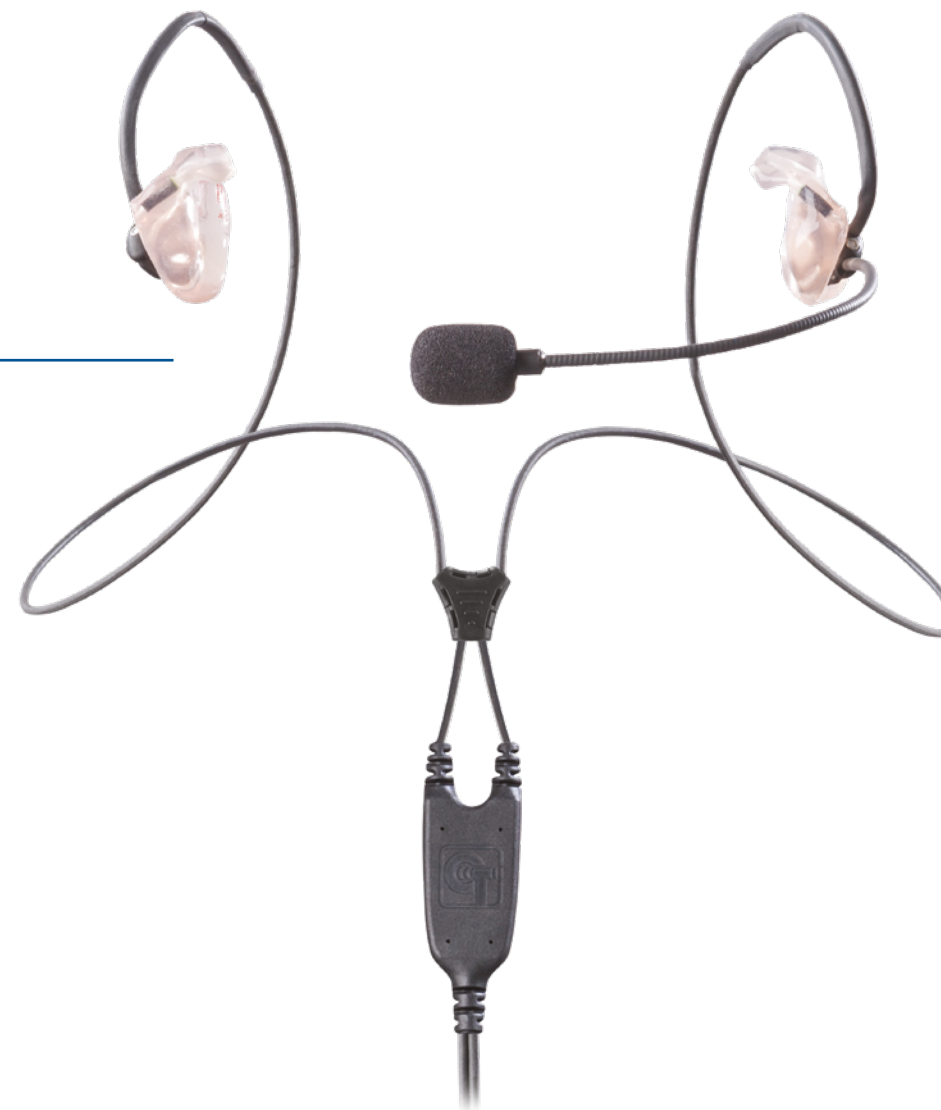
The wireless remote control is not limited to products from the CT-MultiPTT family. Its communication standart is based on Bluetooth® Low Energy (BLE).







# CT-Headsets



The CT-ComLink® technology affords users maximum flexibility when selecting headsets. For example, lightweight in-ear headsets or high-noise headsets, such as helmet systems for high-noise areas, can be connected via the CT-ComLink® interface. The combination of an extremely robust plug connection with break-away function (emergency unlock function) and CT-ComLink® technology allows connected headsets to be detected and the optimal audio configuration to be set for perfect voice transmission.

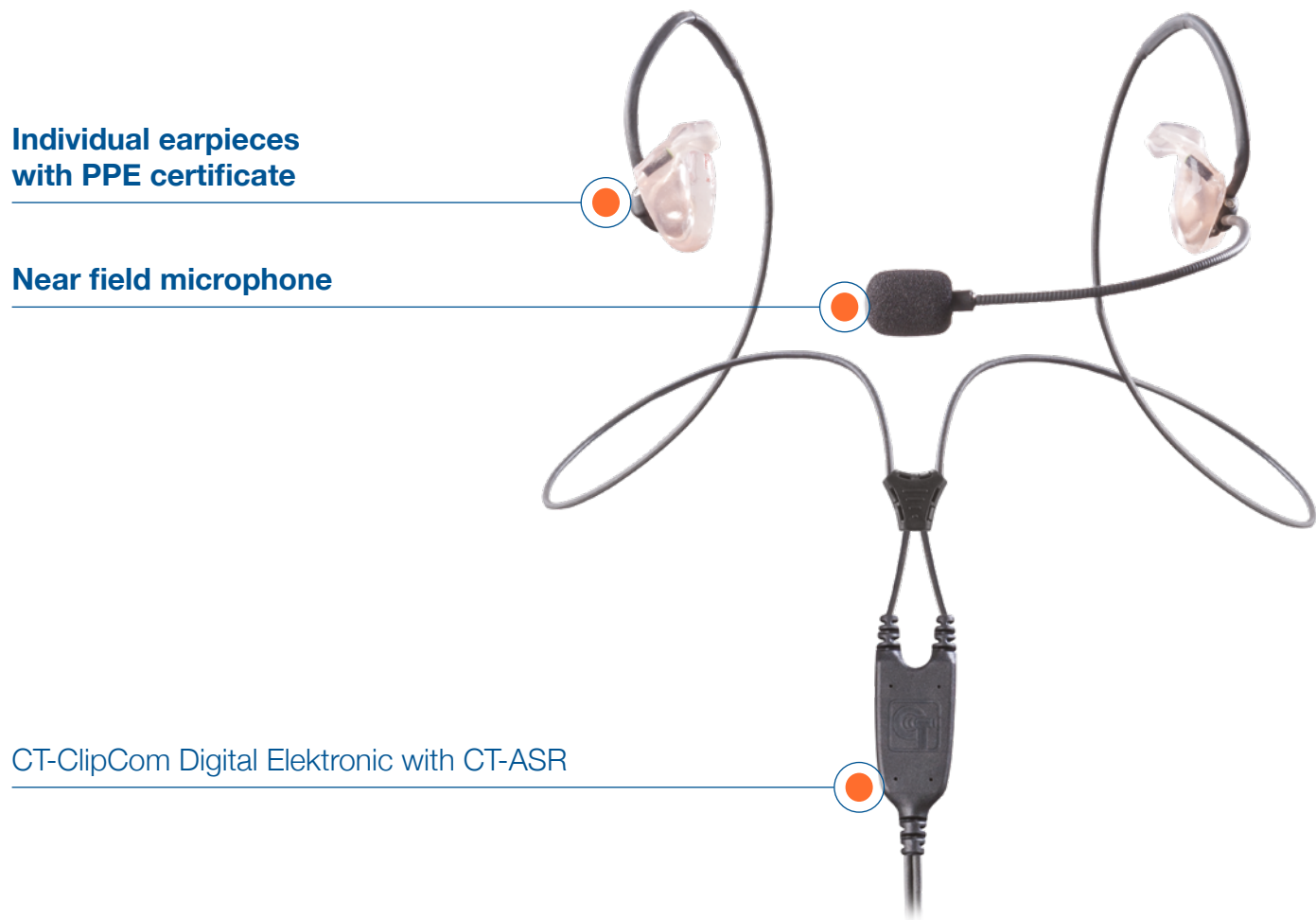


# CT-ClipCom Digital (BM)

Individual earpieces  
with PPE certificate

Near field microphone

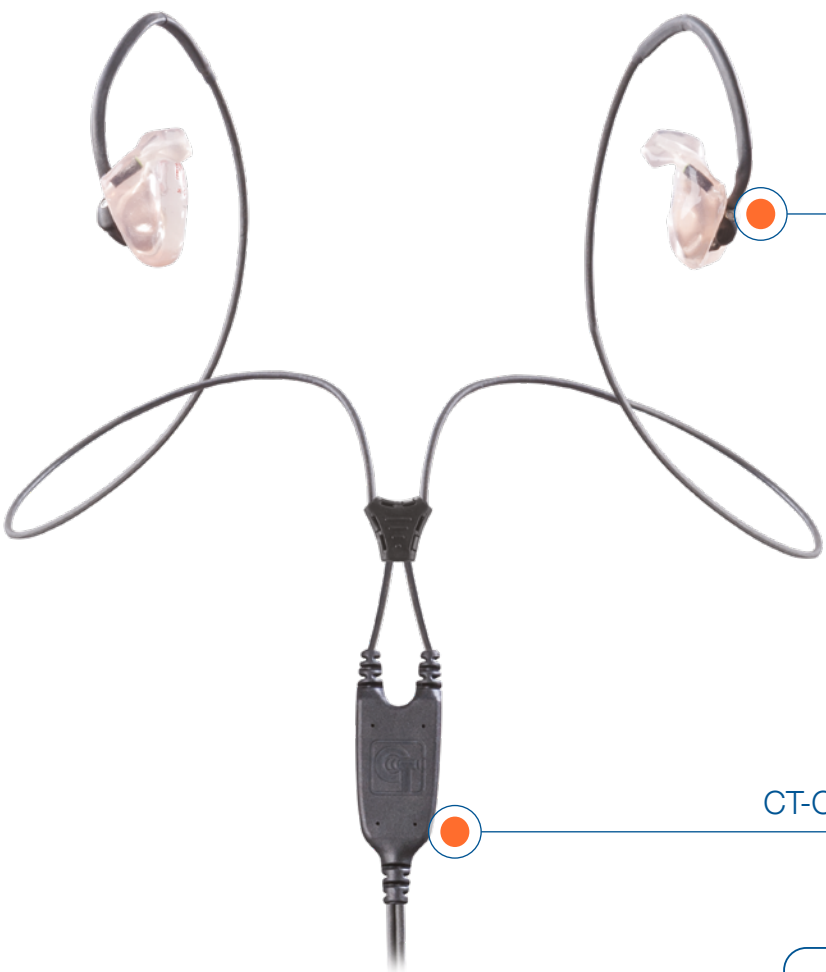
CT-ClipCom Digital Elektronik with CT-ASR



# CT-ClipCom Digital (EM)

Speech pick-up via  
in-ear microphone

CT-ClipCom Digital Elektronik with CT-ASR



Optional:  
Earpieces with PPE certificate



## CT-ClipCom Digital BoomMike and EarMike: With CT-ComLink® technology.

If the ambient noise exceeds the maximum permitted levels and communication is almost impossible, the use of a communication system with hearing protection is essential.

### Natural perception of ambient noise

The digital signal processor of the comfortable in-ear communications system CT-ClipCom Digital processes and optimises the incoming audio signals. The first-class Ambient Sound Reception (CT-ASR) can be adjusted in four sensitivity settings and maintains natural hearing experience.

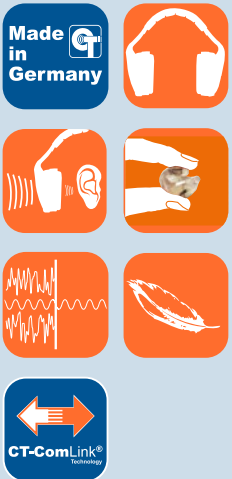
### Built-in safety

If the ambient noise level transmitted by the CT-ClipCom to the ear is too high, the processor regulates the limit volume down to 85 dB(A) in order to actively protect the user's hearing.

Impulse noises as well as any interference are reduced to a safe level. The latest CT-ClipCom Digital of the first generation is available as a boom microphone and an in-ear microphone. Both versions meet the requirements of the new EU Regulation 2016/425 testing standards EN 352 and may be used as personal protective equipment (PPE).

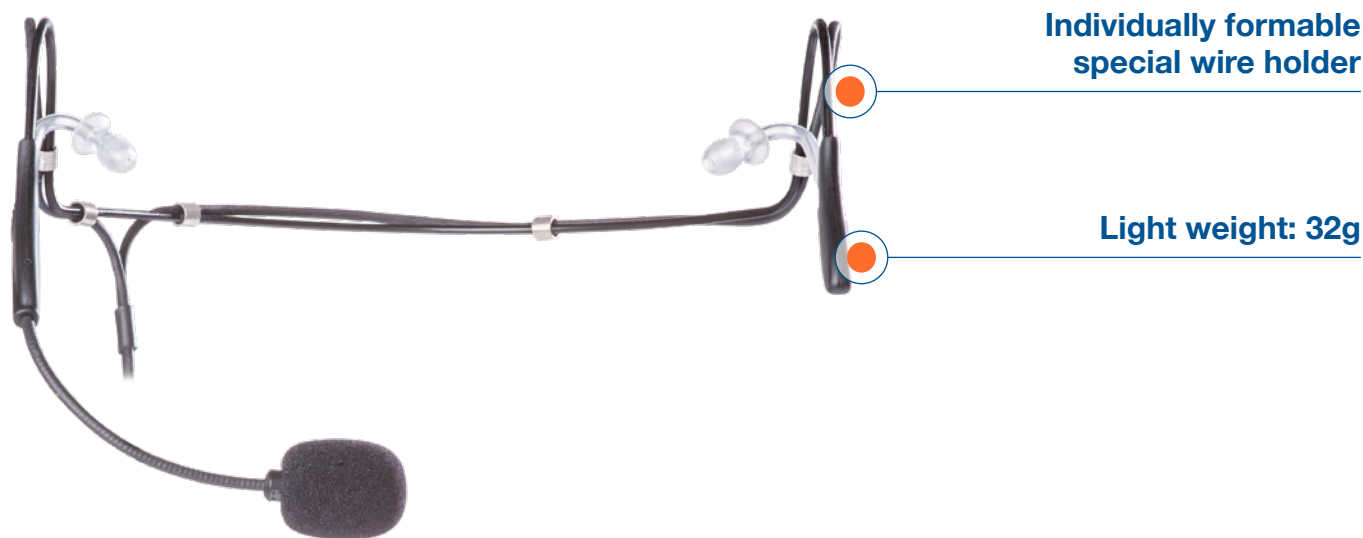
### Equipment – independent

CT-ClipCom Digital is not permanently attached to other protective equipment or head-gear and does not interfere with it. For use with heavy-duty respiratory equipment, the in-ear microphone version is recommended, which picks up speech directly in the ear canal.





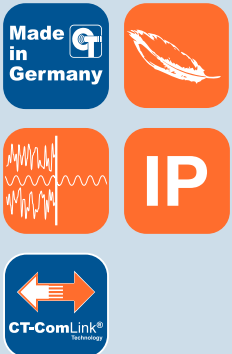
# CT-Neckband Headset



**Binaural:**  
CT-Neckband Headset.

The new CT-Neckband Headset binaural is the “stereo version” of the well-established CT-Neckband Headset. The CT-Neckband Headset weighs only 32 grams and is a so-called helm-independent communication system.

**Up to three communication circuits in parallel**  
Due to its stereo capability, it can communicate via three separate radio circuits (left, centre, right), depending on which multifunctional PTT is connected. The CT-Neckband Headset offers protection against dust and water spray and also scores highly in wearer comfort. Speech is transmitted via a noise-cancelling boom microphone. The speaker signal is routed directly into the auditory canals by audio conduction tubes – with or without ear olives.



# CT-VibrationSpeaker Headset

**Vibration unit:**  
Direct voice transmission to the inner ear



**CT-VibrationSpeaker Headset:**  
Direct voice transmission to the inner ear.

The CT-VibrationSpeaker Headset is a specially developed headset that enables effective communication in quiet and loud environments. With the bone conduction method used here, the voice to be transmitted is converted into vibrations and transmitted directly to the hearing organs through the cranial bones. In this instance, the sound is not “diverted” through the eardrum, but goes directly to the inner ear and can only be heard by the wearer of the headset.

Users of the CT-VibrationSpeaker Headset can concentrate fully on perceiving their surroundings while hearing incoming messages via radio. The secure voice transmission also works reliably in environments with high noise levels where passive in-ear hearing protection is worn for example.

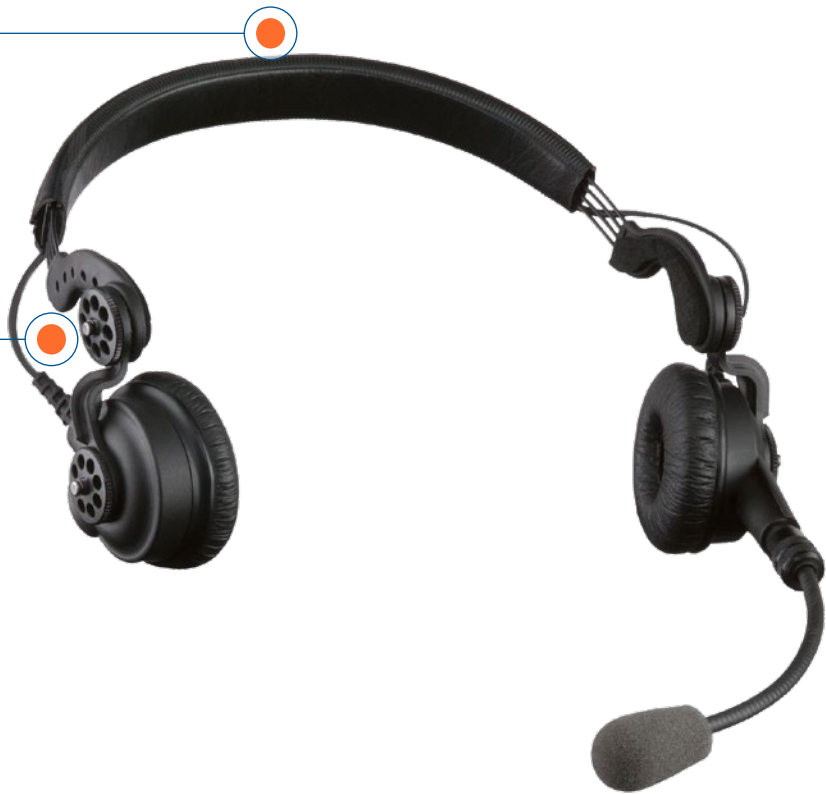




# CT-CombiCom

Individually adjustable  
head- / neckband

Multiple adjustment options  
via knurled screws

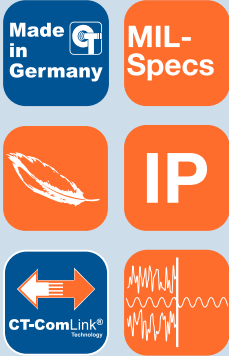


## Binaural: CT-CombiCom.

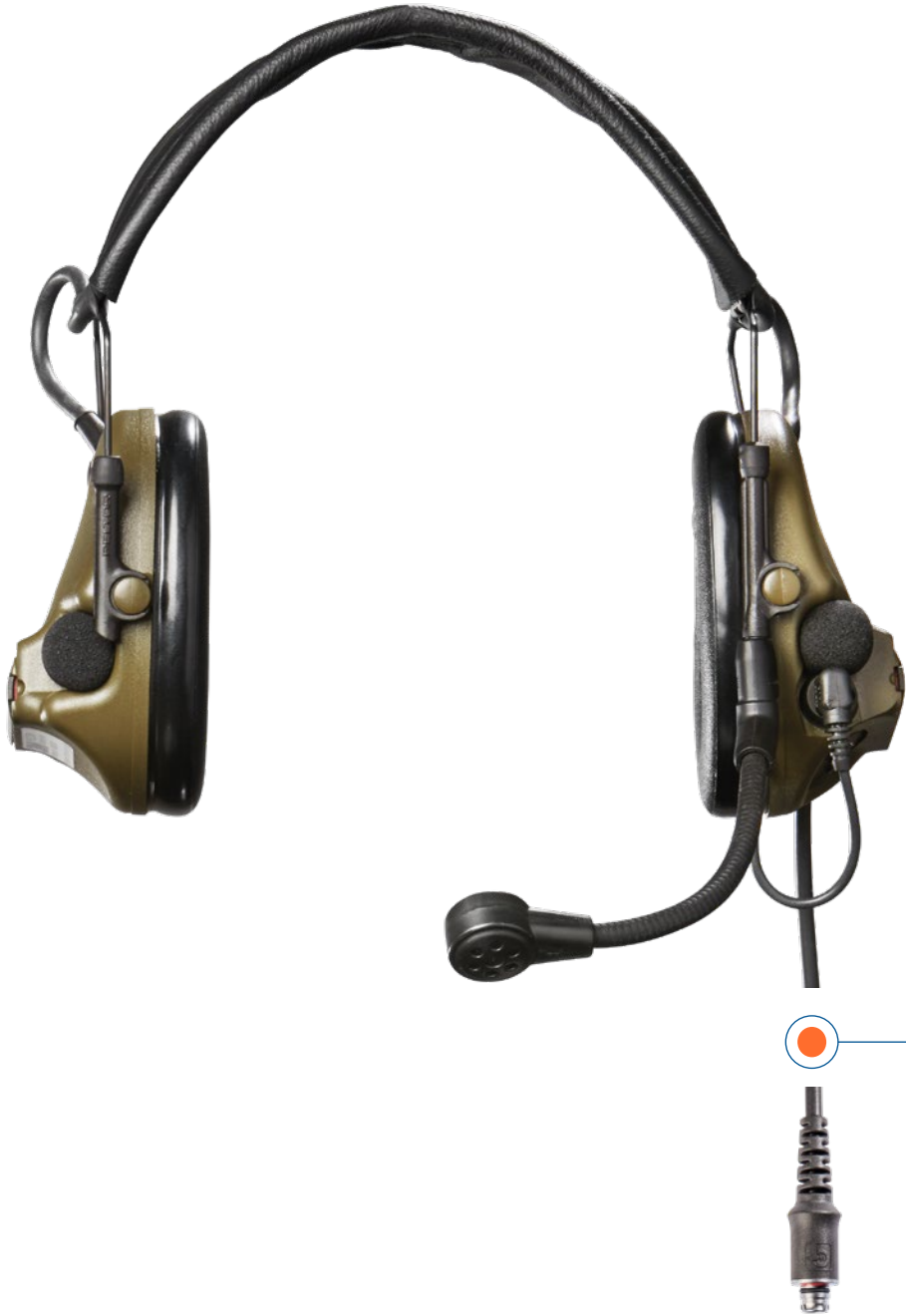
The CT-CombiCom binaural with CT-ComLink® is a modular headset. It is light yet robust and offers users plenty of flexibility for coordinating communication equipment perfectly with the requirements of the mission.

The CT-CombiCom is recommended for complex situations when several radio circuits need to be heard and coordinated simultaneously in conjunction with the CT-MultiPTT 3C.

The system's flat design and wearable version with adjustable headband also allow it to be worn comfortably under helmets and head coverings. All parts of the headset are classified according to IP54 and are resistant to water and dust – made for tough use.



# 3M™ PELTOR™ ComTac™ XPI



CT-ComLink® direct connector

## 3M™ Peltor™ ComTac™ XPI Stereo Headset: Direct connection via CT-ComLink®.

In cooperation with 3M™ Peltor™, CeoTronics offers the ComTac™ XPI Stereo Headset exclusively with CT-ComLink® direct connector.





CT-ComLink® cable



! The CT-ComLink® product range also includes cable adapters for connecting tactical headsets from other manufacturers.







# CT-DECT technology

Latency-free full-duplex communication for locally operating forces. That's what the CT-DECT technology stands for.

It has been the extensive R&D project in the history of CeoTronics AG. The result: CT-DECT Multi. An award-winning, mobile, digital full-duplex communication system for local applications that has been developed using the latest technology for cross target groups. From fire services to military or police, all emergency groups benefit equally from the unprecedented performance of a CT-DECT system.



Supported by:  
 Federal Ministry for Economic Affairs and Energy  
on the basis of a decision by the German Bundestag



# CT-DECT Multi



## CT-DECT Multi: Mobile. Digital. With display.

The digital communication network.

The portable full-duplex communication system with digital CT-DECT technology is used by professionals in fire service as well as police and military. It enables delay-free, wireless full-duplex communication in groups and allows connections via Bluetooth®, e.g. to a mobile phone. The CT-ComLink® technology enables the use of different headsets on the CT-DECT Multi for a wide range of applications.

**SingleCom-/GroupCom function**  
If a CT-DECT Multi user has established a Bluetooth® connection with a mobile phone in addition to the DECT communication circuit, they can operate the mobile radio communication directly as an individual call or share this communication circuit with the entire group. Simply, by pressing a button. This means that the SingleCom and GroupCom function are also available for mission optimization.

Made in Germany

IP

CT-DECT M7

MIL-Specs

# CT-DECT Case8



## CT-DECT Case8:

Latency-free, full-duplex communication for up to eight users.

The CT-DECT Case8 enables work deployments in locations with adverse environmental conditions. The CT-DECT communication system is installed in a mobile, extremely ruggedized and weatherproof housing.

All important control elements like ON/OFF switches (with LED display), battery status display, incryption button and accessory socket are located on the outside. This makes it possible to establish a digital communication network for larger deployment groups in seconds – even in the toughest conditions.

The CT-DECT Case8 is equipped with batterie compartment for worldwide available type AA, as well as digital software options for secure voice transmission. This includes features like CT-DNR (Digital Noise Reduction) for digital noise and interfering suppression.

**System add-ons**  
If required, further communication systems can be integrated in the CT-DECT network via the existing audio interface.

Made in Germany

IP

MIL-Specs

CT-DECT M7

# CT-Inline PowerPack



CT-ComLink®  
Radio connection

VARTA LiPo battery for up to  
50 hours of power supply

## CT-InlinePowerPack: Mobile power supply.

The CT-InlinePowerPack is an optional mobile power supply for CT-MultiPTTs. If there is no or not enough power from connected radio equipment available, the CT-InlinePower-Pack supplies the multifunctional PTTs with energy for up to 50 hours.

The external power source has an additional CT-ComLink® port integrated so that no communication port is blocked during operation.



# CT-ComLink® cable



The CT-ComLink® product range includes cable adapters for connecting various terminal equipment.



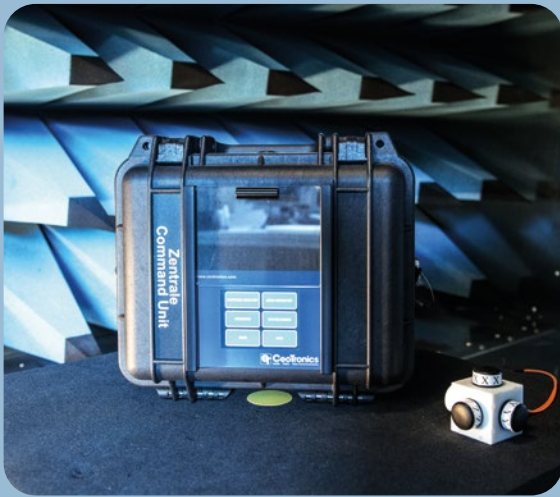
By choosing professional communication systems from CeoTronics, you are receive communication solutions with German engineering know-how and that deserve the quality seal “Made in Germany”. As a company focused on providing a complete service, we also offer our customers product-relevant advice and services of the highest quality.

**Measuring and test equipment:**

IP, EMC pre-checks according to DIN, EN and IEC standards and cable tests.

**CeoTronics is testing for you**

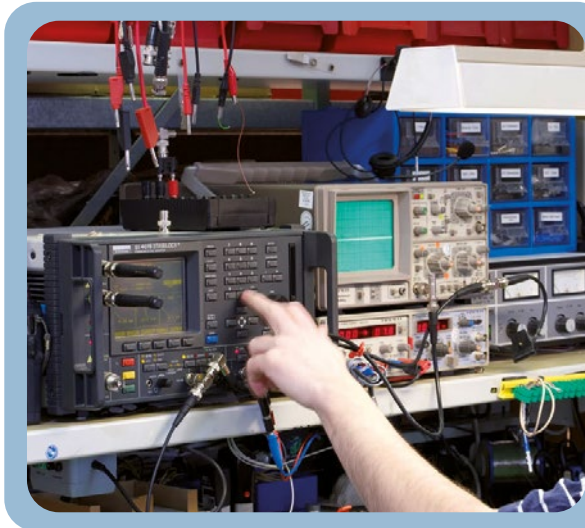
Our experienced measuring engineers support you with developments and can perform pre-checks for necessary IP or EMC certificates. By detecting and documenting of housing-/electronic issues or durability of cables, we support you to identify undesirable developments.



**Occupational safety for employees:**

Safety for companies.

Once hearing damage has been diagnosed, this is usually irreparable. The cause is often sought in the work environment and unfortunately also found. Therefore, the basic principle for occupational health and safety is: prevention takes precedence over rehabilitation. Protect your employees with certified communication systems that can be used as personal protective equipment (PPE) and protect your company from compensation claims.



**Know-how means safety:**

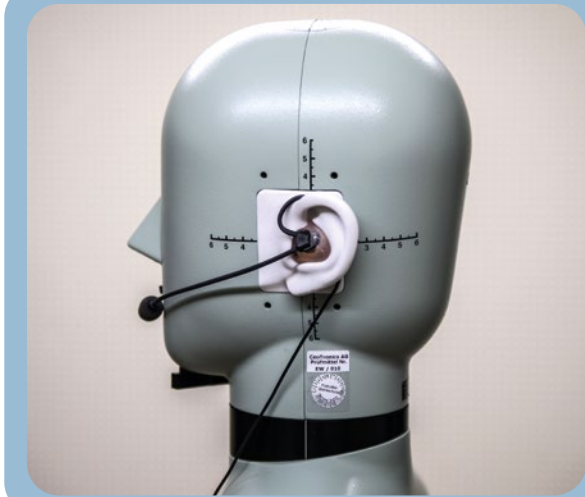
Preliminary solutions and feasibility studies.

Not all aspects of a development can be planned out on the draw-board. That's why the individual customer's situation, and not the product, is the focus at the beginning. Before our development engineers work on your behalf, we initiate detailed preliminary investigations so that we can build on established facts for the development order.

**As individual as the areas of application:**

Programming and up-to-date service.

CeoTronics maintains or modifies software for its customers and independently keeps it up to date. We actively approach the person with product responsibility as soon as new software packages have been developed and the products can be updated to the latest version.



**Extended guarantees:**

Lower repair costs.

CeoTronics offers a voluntary guarantee\* of up to 3 years for almost all products. This is up to 24 months more than the 12-month warranty CeoTronics offers in accordance with the German Civil Code.





# Explanations



Products with this label are developed or designed and produced in Germany by CeoTronics.



Products with this label offer active noise cancellation and thus significantly reduce disturbing environmental noise.



The abbreviation “**IP**” stands for “**I**nternational **P**rotection” or “**I**ngress **P**rotection”. The IP codes provide information on how protected electrical equipment is against various environmental influences such as dust or water.



The CT-DECT M7 technology is a further development of the well-known CT-DECT technology and raises DECT communication to a new level with its robustness and stability.



CeoTronics. products with this label have been tested according to military standards.



Ear pieces made of soft silicone are very comfortable to wear, even when worn for long periods of time. They are very durable, easy to clean and thanks to the antibacterial nano-silver coating they offer also protection against bacteria and fungi in the ear canal.



Products with this label are equipped with a Bluetooth® module and support this technology.



Products with this label are equipped with a Bluetooth® remote function.



This product offers full duplex communication for up to 5 participants.



This product offers full duplex communication for up to 8 participants.



In addition to the voice signal, ambient noises are also transmitted. This allows unrestricted directional hearing.



CT-Headsets with this label are characterized by their particularly low weight.

# Explanations



Products with a noise-compensating microphone screen out disturbing ambient noise and thus transmit speech particularly clearly.



This products can be controlled by a detached wireless PTT button.



Products with this label allow an unrestricted, natural hearing sensation.



Products with this icon are compatible with intercom systems.



The CT-DECT systems enable full duplex communication, which means delay-free, simultaneous listening and speaking at any time without having to press a PTT button.



The product housing is made of anti-reflective material.



Products with this label protect your hearing from excessive noise and provide clear voice communication.



In February 2016, CeoTronics became the first company in the communications industry to be certified according to ISO 9001:2015. Then in 2018, CeoTronics successfully obtained certification according to the new PPE Regulation (EU) 2016/425. By 2002, CeoTronics was already successfully manufacturing according to the ATEX Guideline 94/9 EG for the first time. This certification according to the current directive 2014/34/EU could be renewed without any objections at the beginning of 2019.



\*If not otherwise stated in the offer, CeoTronics grants a 3-year warranty for material and manufacturing defects for CeoTronics products. The precise scope of the warranty can be found in the warranty terms and conditions (also available for download at [www.ceotronics.com](http://www.ceotronics.com)).

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