

NEU

# CT-DECT EOD Com

- Wireless in suit communication for Med-Eng™ EOD® 10 and EOD® 9
- For EOD and IEDD teams
- Individual system configuration
- Integrable tactical radio unit
- Maximum flexibility of use
- Individually expandable system components
- Optional Bluetooth® capability



[WHEN IT COUNTS]



**CeoTronics:**  
More than just headsets.

For over 30 years, CeoTronics have developed and produced innovative communication systems for demanding environments. We are the leading supplier of mobile digital radio networks and terminal equipment as well as high-quality communication headsets and systems for professional use.

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

CeoTronics provides communication systems and services for a wide variety of professional groups and can also develop bespoke solutions for your company. Let

us convince you. 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. This certification was renewed again without any objections at the beginning of 2019.

A guarantee period of 3 years is assured for all CeoTronics products.

For more information, go to: [www.ceotronics.com](http://www.ceotronics.com)

\* siehe Rückseite



**Efficient laboratories:**  
Test, measuring and testing facilities.

By choosing professional communication systems from CeoTronics, you are opting for communication solutions with German engineering know-how that deserve the “Made in Germany” seal of quality. As a holistically oriented company, we naturally also offer our customers technical services at our own testing, measuring and inspecting facilities.

We can perform the following inspections for you at our high-performance laboratory:

- Testing individual PPE products (OTP) on test subjects according to the PPE Regulation using the CT-EarGuard System
- Climate and temperature tests according to MIL standards
- Subjective and objective measurements of sound insulation in our acoustics laboratory based on the PPE Regulation
- Accompanying development EMV-Pre-Compliance examinations with GTEM cell and standard-compliant ESD-examinations
- IP tests according to DIN standard
- Case tests according to MIL standard
- Simulated submersion testing up to 30m
- Alternate bending inspections for cables
- Tensile test for plug connections

Talk to us about your requirements, we gladly develop you an customised offer.





## Vollduplex-Kommunikation:

Mehr Sicherheit für EOD-Teams.

For Explosive Ordnance Disposal (EOD) and Explosives Investigation and Disarmament (IEDD) teams, the transmission of each syllable is important in radio communications. This is why CeoTronics has developed special professional CT-DECT solutions for EOD and IEDD teams that set standards in application and performance.

CeoTronics has been the leading manufacturer of professional stand-alone communication systems for more than 15 years and is recommended by Med-Eng™, the leading manufacturer of protective suits.

### Flexible communication

In professional applications, situations always arise in which no infrastructure is available and full duplex communication, i.e. simultaneous listening and speaking, offers great advantages. The use of CT-DECT technology, which makes the work processes both safer and more efficient, is recommended here. Thanks to the individual system configurations, optimum ranges are possible for all applications.

### Compatibility: Wireless or wired

Depending on the situation and customer requirements, team communication can then take place wirelessly or wired and can be full duplex in an area of operation of up to 300 m wirelessly. The wired range can be higher.

### Keep your hands free for your work

The duplex communication mode allows the disarming team to always keep their hands free for their work. The system works with a harmless average transmission power of only 10 mW (EU) and 5mW (US). The transmission frequency is between 1880 MHz (EU) and 1900 MHz (US).

### Integration of radios

Tactical radios and other means of communication can be integrated into the system. For this purpose, the radio connected to the CT-DECT case is activated with the transmit button (PTT). A cellphone can also be integrated via the optional Bluetooth interface.

### In use internationally

CeoTronics systems have demonstrated their worth over many years and are in use in Germany, the United States, Austria, Switzerland, Australia, Finland, France, Canada, Colombia, Luxembourg, the Czech Republic, the United Arab Emirates, and many other countries.

Wireless ✓  
Full duplex ✓  
Hands-free ✓



CT-DECT EOD Com



Headset alternative:



CT-CombiCom



Med-Eng™ EOD®9



CT-DECT Case





# CT-DECT EOD Com

Configuration: Wireless Basic.



CT communications package:  
Wireless Basic.

- Full-duplex wireless communication – listen and speak simultaneously
- For two users (primary tech/backup tech)
- Simple CT-DECT range

Headset alternative:



CT-ClipCom BoomMike



4 x charger



CT-DECT Multi battery

Headset alternative:



CT-Action Neckband

Storage / Transport



CT-Storage Case

# CT-DECT EOD Com

Configuration: Wireless Basic.



CT communications package:  
Wireless Basic 2.

- Full-duplex wireless communication – listen and speak simultaneously
- For two users (primary tech/backup tech)
- Double CT-DECT range/more flexible resource planning



# CT-DECT EOD Com

**Configuration:** Wireless Advanced.



**CT communications package:**  
Wireless Advanced.

- Full duplex wireless communication
- For up to four/eight primary tech/back-up tech
- Double CT-DECT range
- Robust CT-DECT Case (IP54)



Additional users are possible

# CT-DECT EOD Com

**Configuration:** Wireless Advanced.



**CT communications package:**  
Wireless Advanced + Radio.

- Full duplex wireless communication
- For up to four/eight primary tech/back-up tech
- Double CT-DECT range
- Robust CT-DECT Case (IP54)
- Connection to radio circuit or cellphone network



# CT-DECT EOD Com

Configuration: Wired.



CT communications package:  
Wired.

- Full duplex wired communication
- For two primary tech/backup tech
- Variable range possible



# CT-DECT EOD Com

Configuration: Individual.



CT communications package:  
Wireless Custom made.

- Individual system configuration
- Full duplex wireless communication
- Individual number of primary tech/backup tech
- Up to 4x CT-DECT range / extremely flexible deployment planning
- Various adapters for the integration of radios
- Combination of wireless and wired is possible



CT-DECT Case

CT-DECT Multi

DECT base technology

Digital Enhanced Cordless Telecommunication	
Transmitting frequency:	1880 MHz – 1900 MHz
Access mode:	TDMA 24 time slices / channel, duplex (semi-duplex possible)
Channel spacing:	1,728 MHz
Channels:	120 – system selects channels automatically
Transmitting power (average):	10 mW (EU) / 5 mW (US)
Transmitting power:	10 mW (average), 240 mW (peak)
Voice modulation:	32 kbps ADPCM
Data transfer rate:	max. 1,152 Mbit/s
RF modulation method:	GFSK
Receiver sensitivity:	- 86 dBm
Range:	approx. 300 m for line-of-sight (los), approx. 30-50 m in buildings, approx. 70-100 m in built-up areas and wooded areas

CT-DECT Case

Physical	
Weight:	approx. 1,300 g
Dimensions (L/W/H):	approx. 206 x 167 x 90 mm
Electronics	
DSP Features:	DNR, AGC, echo cancelling
Power supply:	AA (rechargeable) batteries
Power-on time:	approx. 8 hours – depending on ambient temperature and battery capacity
Power consumption, 4-user case:	approx. 150 mA
Power consumption, 8-user case:	approx. 250 mA
Surroundings	
Operating temperature:	approx. -20 °C to +55 °C
Min. storage temperature:	approx. -40 °C
Max. storage temperature:	approx. +80 °C
Air humidity:	95 % /60 °C 8 hours; 95 % /30 °C 20 hours
Vibration, shock, temperature, humidity:	CT-DECT Case conforms to MIL-STD-810-F
IP rating:	IP54
EN standards:	EN 301 406 – DECT
	EN 301 489 -1 V1.4.1 – Electromagnetic Compatibility (EMC)
	EN 301 489 -6 V1.2.1 – Electromagnetic Compatibility (EMC)
	EN 301 489 -9 V1.3.1 – Electromagnetic Compatibility (EMC)
	EN 60950 – Electrical Safety

CT-DECT Multi

Mechanik	
Weight:	approx. 320 g (with battery and clip)
Dimensions (L/W/H):	approx. 120 x 80 x 40 mm
Elektronik	
Signal processing:	Digital signal processing /Full-duplex/DNR, EC, EQ
Power supply:	Varta Easy Pack Li-Po battery (2400mAh)
Power-on time:	approx. 20 hours – depending on ambient temperature and battery capacity
Power consumption:	approx. 100 mA
Umgebung	
Operating temperature:	approx. -20 °C to +55 °C
Min. storage temperature:	approx. -40 °C
Max. storage temperature:	approx. +80 °C
Air humidity:	95 % /60 °C 8 hours; 95 % /30 °C 20 hours
Vibration, shock, temperature, humidity:	CT-DECT Multi conforms to MIL-STD-810-G
IP rating:	IP66/67
EN standards:	EN 301 406 – DECT
	EN 301 489 -1 V1.4.1 – Electromagnetic Compatibility (EMC)
	EN 301 489 -6 V1.2.1 – Electromagnetic Compatibility (EMC)
	EN 301 489 -9 V1.3.1 – Electromagnetic Compatibility (EMC)
	EN 60950 – Electrical Safety
	EN 50360 – Specific Absorption Rate (SAR)
	EN 50361 – Specific Absorption Rate (SAR)
	EN 50371 – Specific Absorption Rate (SAR)





# Explanations

Made  
in  
Germany

Developed and  
produced in  
Germany

IP

Equal to  
protection class



Up to 4  
participants



CT-DECT M7  
technology

TÜV  
Zertifiziert/  
Certified

DIN EN ISO 9001:2015

PSA  
Zertifiziert/  
Certified

Verordnung / Modul  
Regulation / Module  
(EU) 2016/425  
Annex VIII (Module D)

TÜV  
Zertifiziert/  
Certified

Richtlinie 94/9/EG (ATEX)  
Directive 94/9/EG (ATEX)

Zertifiziert/  
Certified  
ISO  
9001:2015

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

IP stands for International Protection. IP inspection types provide information about how an electrical device is protected from various environmental influences such as contact, dust or water.

This product offers full duplex communication for up to 4 participants.

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.

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# Services

The holistic service from CeoTronics:  
For the best price-/performance ratio.

## CT-Analytics

Expertise means safety  
Preliminary examinations and  
feasibility analyses

## CT-Training

Increase in efficiency  
Product training and  
system commissioning

## CT-EarGuard

Occupational safety for employees  
according to PPE Regulations:  
Safety for companies

## CT-Engineering

Customer-specific  
product developments

## CT-Product Guarantee

Additional warranty period –  
lower repair costs

## Delivery Guarantee

Ready to ship in 48 hours

## CT-Software Service

Individual like the fields of application-  
Programming and up-to-date service

## CT-Maintenance

For employers and employees  
Increase occupational safety,  
reduce risks of failure

## CT-Measurement and Testing Facilities

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

## CT-Obsolescence Management

Fit/Form/Function offers security  
For your procurement period





\*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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## CeoTronics AG

Audio · Video · Data Communication

Adam-Opel-Str. 6

63322 Rödermark (Germany)

Tel.: +49 6074 8751-0

Fax: +49 6074 8751-265

E-Mail: [sales@ceotronics.com](mailto:sales@ceotronics.com)

Web: [www.ceotronics.com](http://www.ceotronics.com)

