

# Roger On™ C

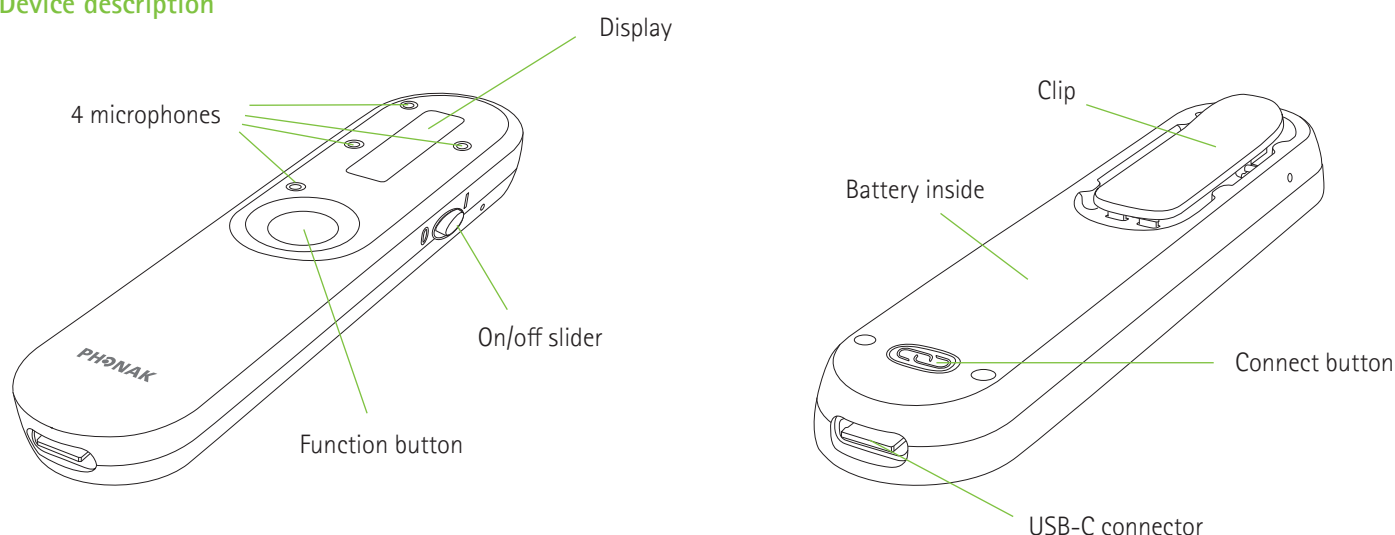
## Technical data.



roger

The Roger On C is a state-of-the-art array-microphone with intelligent digital signal processing for nearby audio surveillance. The Roger On C can be positioned close to agent or also hidden closer to the suspect. By connecting the Roger Earpiece C it allows the simultaneous hearing of the targeted discussion nearby. For recording purpose, the Roger Neckloop serves as gateway to a external recorder.

### Device description



### Features

- Listen to and record a nearby conversation without pre-installation, recording through the Roger Neckloop.
- Rapidly deployable
- Portable and discreet with the size of a marker
- Encrypted AES 128-bits audio streams
- Digital signal processing providing beam forming, noise cancelling and voice enhancement
- Integrated in Roger Covert System
- App for beam steering and remote control
- Protected against water splash and dust

## General information

Dimensions (L x W x H)	99.7 x 23.5 x 13.6 mm (3.93 x 0.93 x 0.54")
Weight	27 g (0.95 oz)
Color	Graphite Gray
Operating conditions	0° to +40° Celsius (+32° to +104° Fahrenheit) Relative humidity of <90% (non-condensing)
Transport and storage conditions	-20° to +60° Celsius (-4° to +140° Fahrenheit) Relative humidity of 90% for a long period of time

## Microphone characteristics

Number of microphones	4
Microphone modes	Table, Horizontal pointing, Vertical pointing
Signal processing applied	Beamforming, Noise cancelling

## Radio information

Roger™ is a patented technology developed by Phonak, which features adaptive, wireless transmission and runs on the 2.4 GHz band. Roger™ audio signals are digitized and packaged into very short digital bursts of codes packets and broadcast several times, each time using different channels between 2.4000 and 2.4835 GHz. Frequency-hopping between channels, in combination with these repeated broadcasts, avoids interference issues and ensures successful transmission. Phonak has developed the proprietary Roger™ microchip for dedicated use with miniaturized ear-level receivers.

Transmission technology	2.4 GHz ISM band including adaptive automatic frequency hopping
RF power	100 mW (20dBm)
Transmission range (clear line of sight, free field)	Up to 25 meters / 80 feet

## Encryption

Roger™ encryption	The audio transmission is secured with an AES (Advanced Encryption Standard) encryption where the code is exchanged at the time of on demand synchronization.
Key size	128-bits

## Receiver compatibility

Compatible Roger receivers	Roger Earpiece C, Roger Neckloop (02)
Max. connected receivers	Unlimited

## Audio information

Audio bandwidth	100Hz – 7200Hz
-----------------	----------------

## Ingress protection

IP54	Protected against splash and dust
------	--------------------------------------

## Power supply

Type	DC, stabilized
Primary voltage	100–240 V
Secondary voltage	5 VDC
Max. current	1.0 A
Plug	USB-C
Important notice	Only use a power supply delivering max 5VDC/1A

## Battery

Type	Lithium Polymer
Capacity	260 mAh
Voltage	3.7 V
Operating time	6h
Charging time	2h from 0 to 80%

## Standards

Europe	EN 300 328, EN 301 489, EN 62368-1, IEC/EN 62311
Canada	RSS-247, RSS-102
USA	CFR 47, part 15.247, FCC OET Bulletin No.65

## myRogerMic app



App Store badge is a trademark of Apple Inc., registered in the U.S. and other countries. Google Play and the Google Play logo are trademarks of Google LLC.

