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# Roger Pen

## Technical Data

roger

This universal, cutting-edge wireless microphone helps people with a hearing loss to understand more speech in noise and over distance.

Designed with discretion in mind, the Roger Pen features adaptive wireless transmission, fully automated settings, wideband audio Bluetooth for cell phone use, TV connectivity and an audio input for listening to multimedia. It can also be used alongside other Roger Clip-On Mics and Roger Pens in a microphone network.

### Roger Pen features

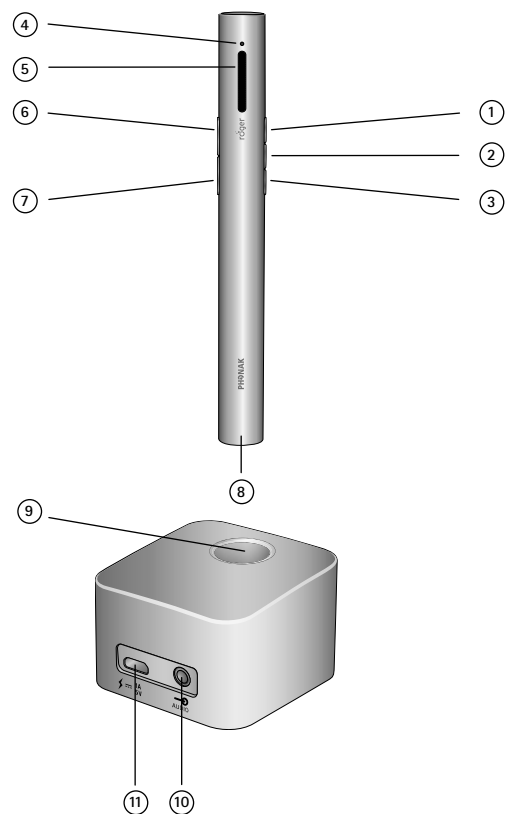
- Proven Roger speech-in-noise performance
- Fully automatic microphone mode selection
- Manual microphone mode option
- Advanced microphone beamforming
- 'Zoom into' soft voices in quiet and over distance
- Audio input for connection to multimedia devices
- Bluetooth for cell phone connection
- Multiple microphone use in a network

### Description

- ① On/off/mute
- ② Connect
- ③ Microphone mode change
- ④ Indicator light (LED)
- ⑤ Microphone
- ⑥ Accept call
- ⑦ Decline call
- ⑧ Charging and audio input (micro-USB)
- ⑨ Slot for Roger Pen
- ⑩ Audio input (3.5 mm / 1/8 inch jack)
- ⑪ Charging input (micro-USB)

### What is Roger

Roger is the new digital standard that bridges the understanding gap, in noise and over distance, by wirelessly transmitting the speaker's voice directly to the listener.



## General data

Type:	Roger microphone
Dimensions (L x Ø):	142 x 15 mm / 5.6 x 0.6 inches
Weight:	28 g / 0.05 lbs
Operating conditions:	Temperature should not exceed the limit values of 0° to +40° Celsius / +32° to +104° Fahrenheit and relative humidity of <95% (non condensing)
Transport and storage conditions:	During transport or storage, the temperature should not exceed the limit values of -20° to +60° Celsius / -4° to +140° Fahrenheit and relative humidity of 90% for a long period
Battery:	Type: Lithium Polymer Capacity: 360 mAh Voltage: 3.7V
Operating time:	7 hours
Operating time with active Bluetooth call:	5 hours
Power supply:	Voltage input: 100-240V Voltage output: 5 VDC / 1A Connector: micro-USB Cable length: 1.3 m / 4.2 feet

## Microphone characteristics

Microphone:	Array microphone
Microphone modes:	Automatic, Interview, Conference, Handheld

## Bluetooth for phone calls

Bluetooth range:	3 m / 10 feet (Class 2)
Bluetooth profiles supported:	Headset Profile (HSP) Handsfree profile (HFP)
Bluetooth compliance:	Bluetooth version 4.0
QDID:	B021307
Max. paired phones:	8
Maximum of simultaneously connected phones:	2



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## Roger characteristics

Transmission technology:	2.4 GHz including adaptive automatic frequency hopping
Power emission:	25 mW
Operating range:	10 meters / 33 feet (typical) 20 meters / 66 feet (ideal conditions)

## Roger system data (Connect)

Frequency (Roger microphone to Roger receiver):	2.4 GHz
Connect operating range:	10 cm / 3.9 inches

## Roger network

Compatible Roger receivers:	All personal Roger receivers
Number of Roger receivers:	Unlimited
Compatible Roger microphones:	Roger Pen and Roger Clip-On Mic
Number of Roger microphones:	Up to 10

## Audio characteristics

Audio bandwidth:	100 Hz – 7.3 kHz
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## Standards

El. Safety:	IEC / EN 60950-1
Radiocom 2.4 GHz:	EN 300 328
EMC:	EN 301.489-1,-3,-9,-17

## Accessories

Docking station:	Charging input (micro-USB) and audio input (3.5 mm / 1/8 inch jack)
Lanyard length:	Length: 56 cm / 22 inches