

Phonak

Roger On™



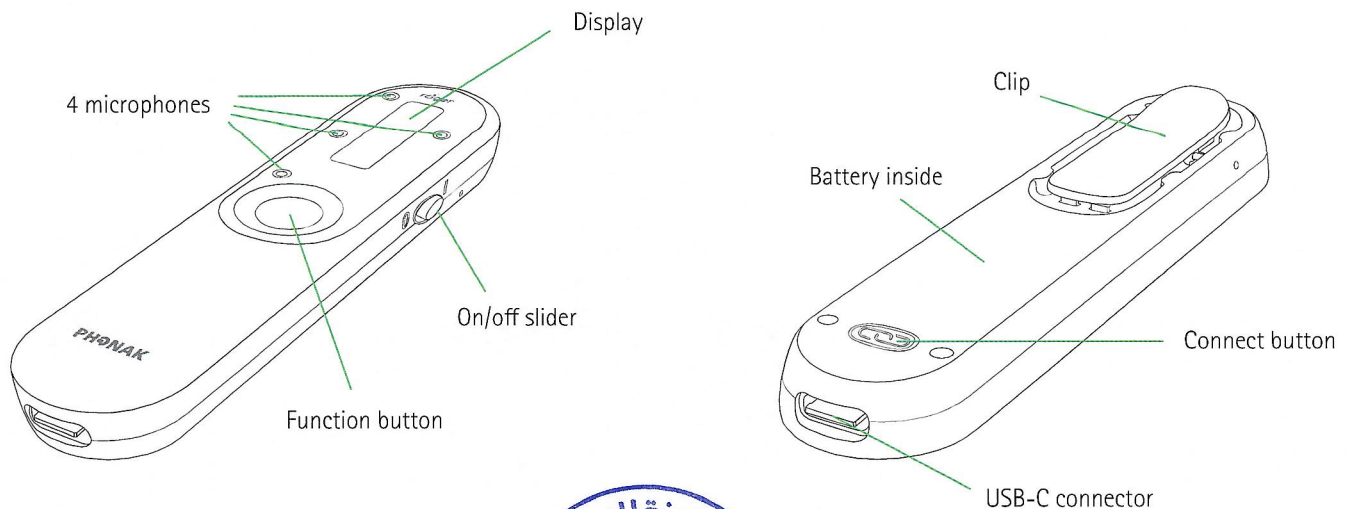
Roger On is a versatile microphone dedicated for all conversation where background noise is present or when there is a distance to the talker. It features MultiBeam 2.0 Technology and Pointing mode 2.0. Personalization and remote control of the Roger On is easy with the new myRogerMic app. Roger On is compatible with all hearing devices with RogerDirect™ and all Roger receivers.

Technical Data

Type	Roger microphone
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 options	Champagne, Graphite Gray
Included accessories	Power supply with USB cable, docking station, optical audio cable, analog audio cable, lanyard, case
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



Device description

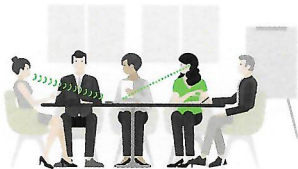


Use cases

On the table



Restaurant



Meeting

Hold in the hand (pointing)

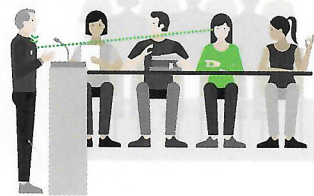


Party



Face-to-face

Worn by a presenter/talker

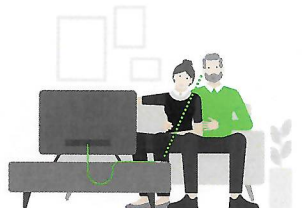


Speech



Class

Streaming TV audio



Watching TV

Features

- Proven Roger speech-in-noise performance¹
- MultiBeam 2.0 Technology with RogerDirect / MultiBeam Technology with other Roger receivers
- Orientation Independent presenter mode
- Pointing mode 2.0
- Audio input for multimedia
- Multiple microphone use in a network (MultiTalker Network)
- IP54. Protected against splashes of water and dust
- App for beam steering and remote control

myRogerMic app



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Google Play and the Google Play logo are trademarks of Google LLC.



Microphone characteristics

Number of microphones	4
Microphone modes	Table, Pointing, Presenter

Radio information

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

Audio information

Audio input	Digital and analog via USB-C socket
Max. analog voltage	1 Vrms
Audio bandwidth	100 Hz – 7.3 kHz

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 the original USB Phonak power supply 5VDC, > 500 mA

Battery

Type	Lithium Polymer
Capacity	260 mAh
Voltage	3.7 V
Operating time	8h when using hearing device with RogerDirect 6h when using Roger receiver

Receiver compatibility

Compatible Roger receivers	All personal Roger receivers, except SoundField
Max. connected receivers	Unlimited

Microphone compatibility (MultiTalker Network)

A Roger On in a MultiTalker Network functions only in Presenter mode (hanging around the neck or clipped on the chest)

Compatible Roger microphones	Roger On™ Roger Select™ Roger Table Mic II Roger Pen™ Roger EasyPen Roger Clip-On Mic Roger On™ iN Roger Select™ iN Roger Table Mic II iN Roger Pen™ iN
Max. connected microphones	Up to 10

Standards

Europe	EN 300 328, EN 301 489, EN 62368-1, IEC/EN 62311
Canada	RSS-247, RSS-102
Japan	ARIB-T66
USA	CFR 47, part 15.247, FCC OET Bulletin No.65

Ingress protection

IP54	Protected against splashes of water and dust
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¹ Thibodeau, L. (2014). Comparison of speech recognition with adaptive digital and FM wireless technology by listeners who use hearing aids. American Journal of Audiology, 23(2), 201–210.

Phonak

Roger On™ iN



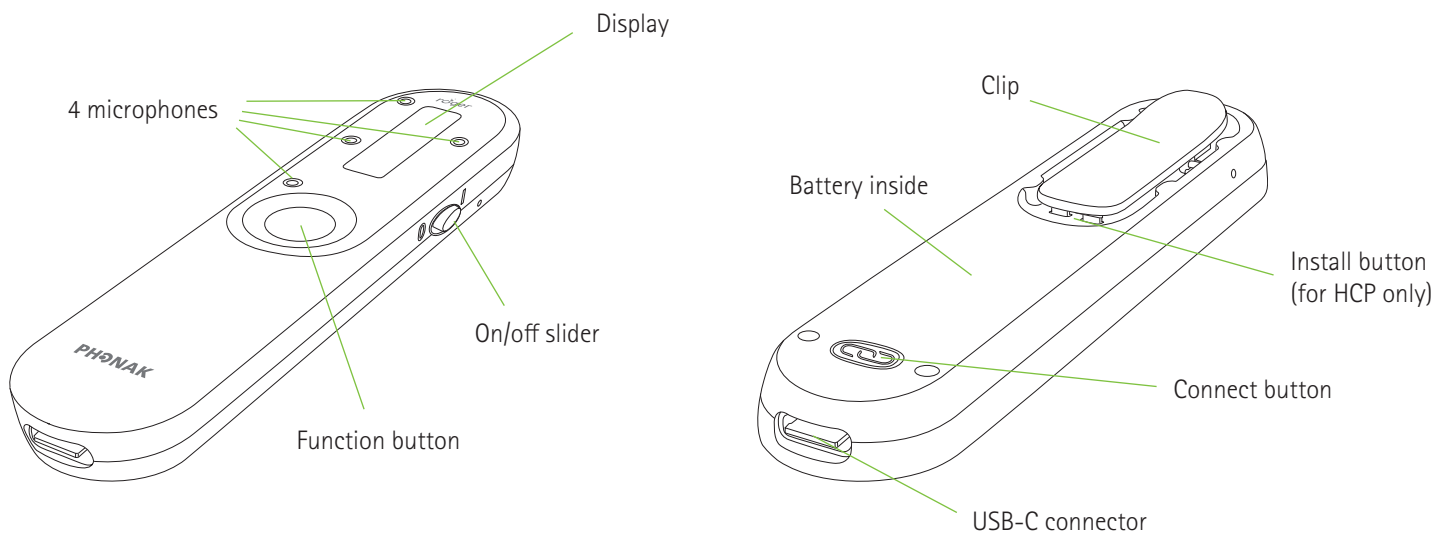
Roger On iN is a versatile microphone dedicated for all conversation where background noise is present or when there is a distance to the talker. It features MultiBeam 2.0 Technology and Pointing mode 2.0. Personalization and remote control of the Roger On iN is easy with the new myRogerMic app. Roger On is compatible with all hearing devices with RogerDirect™ and all Roger receivers.

Technical Data

Type	Roger microphone
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 options	Champagne, Graphite Gray
Included accessories	Power supply with USB cable, docking station, optical audio cable, analog audio cable, lanyard, case
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



Device description



Use cases

On the table



Restaurant



Meeting

Hold in the hand (pointing)

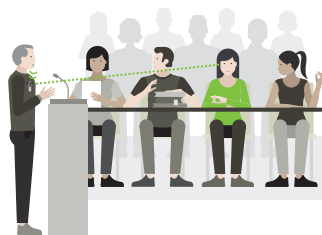


Party



Face-to-face

Worn by a presenter/talker



Speech



Class

Streaming TV audio



Watching TV

Features

- Proven Roger speech-in-noise performance¹
- MultiBeam 2.0 Technology with RogerDirect / MultiBeam Technology with other Roger receivers
- Orientation Independent presenter mode
- Pointing mode 2.0
- Audio input for multimedia
- Multiple microphone use in a network (MultiTalker Network)
- IP54. Protected against splashes of water and dust
- App for beam steering and remote control

Roger installation

Roger On iN contains two Roger receivers that can be installed into a pair (two) of hearing devices with RogerDirect.

myRogerMic app



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Google Play and the Google Play logo are trademarks of Google LLC.

Microphone characteristics

Number of microphones	4
Microphone modes	Table, Pointing, Presenter

Radio information

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

Audio information

Audio input	Digital and analog via USB-C socket
Max. analog voltage	1 Vrms
Audio bandwidth	100 Hz – 7.3 kHz

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 the original USB Phonak power supply 5VDC, > 500 mA

Battery

Type	Lithium Polymer
Capacity	260 mAh
Voltage	3.7 V
Operating time	8h when using hearing device with RogerDirect 6h when using Roger receiver

Receiver compatibility

Compatible Roger receivers	All personal Roger receivers, except SoundField
Max. connected receivers	Unlimited

Microphone compatibility (MultiTalker Network)

A Roger On in a MultiTalker Network functions only in Presenter mode (hanging around the neck or clipped on the chest)

Compatible Roger microphones	Roger On™ Roger Select™ Roger Table Mic II Roger Pen™ Roger EasyPen Roger Clip-On Mic Roger On™ iN Roger Select™ iN Roger Table Mic II iN Roger Pen™ iN
Max. connected microphones	Up to 10

Standards

Europe	EN 300 328, EN 301 489, EN 62368-1, IEC/EN 62311
Canada	RSS-247, RSS-102
Japan	ARIB-T66
USA	CFR 47, part 15.247, FCC OET Bulletin No.65

Ingress protection

IP54	Protected against splashes of water and dust
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¹ Thibodeau, L. (2014). Comparison of speech recognition with adaptive digital and FM wireless technology by listeners who use hearing aids. American Journal of Audiology, 23(2), 201-210.

Roger 17

(02)

Technical Data

roger



Roger 17 is a design-integrated Roger receiver that is designed for use with the Advanced Bionics Naída CI Q70 sound processor.

Simply attach the Roger 17 receiver to the Naída CI sound processor. When the speaker uses a Roger wireless microphone, Naída CI recipients have the opportunity to benefit from industry-leading speech-in-noise performance.

Roger 17 features

- Adaptive gain
- Effective stand-by mode
- EasyGain adjustment
- Check to read / manage device data via Roger inspiro
- Link quality measurement

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:	Design-integrated Roger CI receiver Operates with all Roger microphones
Length:	18.7 mm / 0.736 inch
Width:	9 mm / 0.354 inch
Height:	10.6 mm / 0.417 inch
Weight:	0.94 g / 0.032 oz
Operating conditions:	The product has been designed for trouble-free operation without restrictions when used as intended, unless otherwise stated in the user guide. 0° to +60° Celsius / +32° to +140° Fahrenheit and relative humidity <95% (non condensing)
Transport and storage conditions:	-20° to +60° Celsius / -4° to +140° Fahrenheit and relative humidity of 90% for a long period of time



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Roger characteristics

Frequency:	2.4 GHz ISM Band
Transmission delay:	< 20 ms
Antenna:	Built-in antenna
Backlink RF power:	0.02 mW

Audio characteristics

Audio bandwidth:	100 Hz – 7.2 kHz
Distortion:	< 2% for $f_{mod} = 1$ kHz
Audio signal output:	-46 dBV (transmitter in compression, $f_{mod} = 1$ kHz, surrounding noise level < 58 dB SPL) @ EasyGain = 0dB
Adaptive audio gain:	Up to 20 dB
EasyGain range:	-8 dB to +8 dB

Power management

Power supply:	Supplied by the CI sound processor battery
Voltage range:	1.0 to 1.5 V
Current drain*:	Active mode 2.8 mA for $V_{BAT} = 1.2$ V Sleep mode 0.5 mA for $V_{BAT} = 1.2$ V

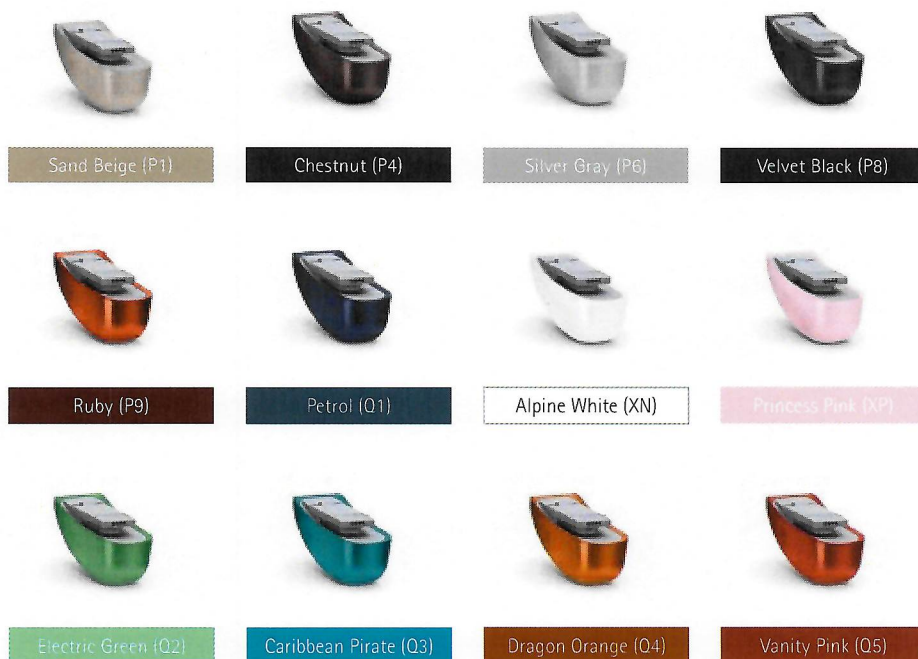
Standards

Radiocom:	EN 300 440 FCC part 15.249
EMC:	EN 60601-1-2, EN 301 489 FCC part 15b
Water Resistant:	IP54 ¹

Compatibility

Advanced Bionics CI sound processor:	Naida CI Q70
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Housing colors



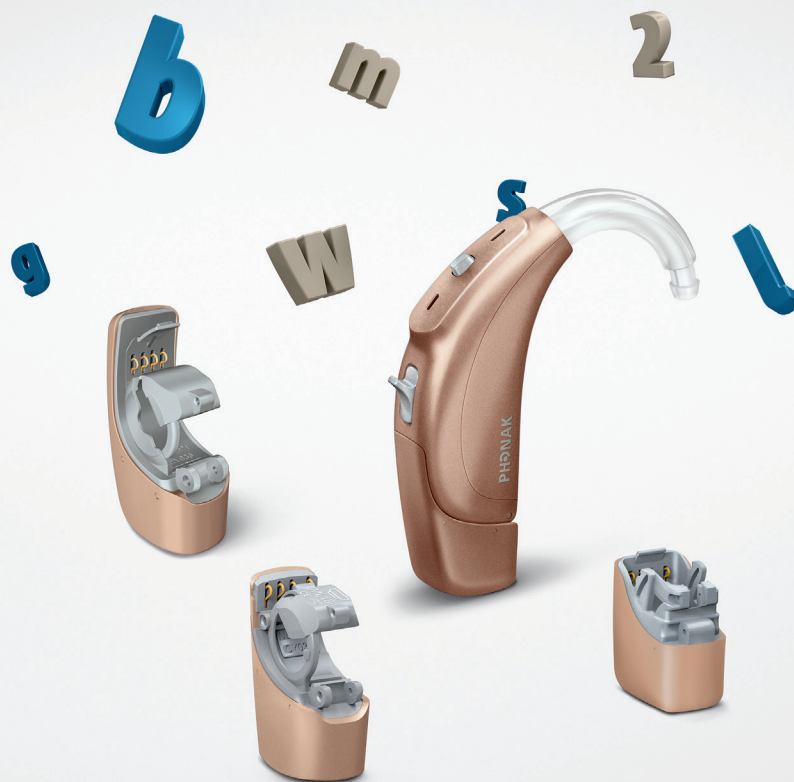
¹ IP54 indicates that splashing water from any direction for 5 min had no harmful effect on the CI sound processor and attached Roger receiver.

*Valid for receivers with serial number higher than 1419NY1UL. Receivers with lower serial number drain 3.4 mA mode in active and 700 uA in sleep mode.

Roger™ design-integrated receivers

Children (02)

Product information and technical data



roger

Roger design-integrated receivers bring industry-leading speech-in-noise performance to Phonak hearing instrument users who have a moderately-severe to profound hearing loss. These discrete devices slightly extend the sleek contours of a Phonak hearing instrument. Simply use this guide to choose the correct Roger receiver for the Phonak hearing instrument in question.

For more information visit www.phonakpro-us.com

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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.

Key features

Additional adaptive gain

Roger receivers automatically adjust the output gain according to the surrounding noise level to maintain intelligibility in noisy environments. The noise level is measured by the Roger microphone and sent to the Roger receiver along with the audio signal.

Effective stand-by mode

Roger receivers automatically enter stand-by mode if the connected microphone is turned off or moves out of range. In stand-by mode power usage is reduced to increase the battery's life.

Check

This feature allows the user to quickly read receiver data and to check a receiver's functionality via Roger inspiro.

Link quality measurement

The average wireless link quality can be checked via the Check feature. This gives the wearer of the Roger microphone information about the reception quality of the signal being transmitted.

EasyGain

This enables the adjustment of a receiver's default output gain via Roger inspiro.

Phonak hearing instrument compatibility



Roger™ 19	Roger™ 18	Roger™ 16	Roger™ 15	Roger™ 13	Roger™ 11	Roger™ 10
Phonak Naida™ V-UP	Phonak Audéo™ V-13	Phonak Bolero™ Q-P	Phonak Sky™ Q-RIC	Phonak Ambra microP	Phonak Sky™ Q-SP	Phonak Sky™ Q-UP
Phonak Sky™ V-UP	Phonak Bolero™ V-P	Phonak Bolero™ Q-SP	Phonak Sky™ Q-M13	Phonak Ambra SP	Phonak Naida™ Q-SP	Phonak Naida™ Q-UP
	Phonak Bolero™ V-SP		Phonak Naida™ Q-RIC	Phonak Solana microP	Phonak Naida™ S SP	Phonak Naida™ S UP
	Phonak Naida™ V-RIC		Phonak Naida™ S CRT	Phonak Solana SP	Phonak Naida™ SP	Phonak Naida™ UP
	Phonak Naida™ V-SP		Phonak Bolero™ Q-M13	Phonak Cassia microP		
	Phonak Sky™ V-RIC		Phonak Ambra M H20	Phonak Cassia SP		
	Phonak Sky™ V-P		Phonak Solana M H20	Phonak Dalia microP		
	Phonak Sky™ V-SP		Phonak Dalia M H20	Phonak Dalia SP		
			Phonak Cassia M H20			
			Phonak Nios S H20			

Note: to check the compatibility of new Phonak hearing instruments visit www.phonakpro-us.com

Options

	Roger™ 19	Roger™ 18	Roger™ 16	Roger™ 15	Roger™ 13	Roger™ 11	Roger™ 10
Tamperproof housing kit for babies and toddlers (0 - 36 month)	•	•		•		•	•

Housing colors



		Roger™ 19	Roger™ 18	Roger™ 16	Roger™ 15	Roger™ 13	Roger™ 11	Roger™ 10
P1	Sand Beige	•	•	•	•		•	•
P2	Amber Beige	•	•	•	•		•	•
P3	Sandalwood	•	•	•	•		•	•
P4	Chestnut	•	•	•	•		•	•
P5	Champagne	•	•	•	•		•	•
P6	Silver Gray	•	•	•	•		•	•
P7	Graphite Gray	•	•	•	•		•	•
P8	Velvet Black	•	•	•	•		•	•
P9	Ruby	•	•	•	•		•	•
Q1	Petrol	•	•	•	•		•	•
01	Beige	•	•	•	•	•	•	•
03	Dark Brown						•	•
04	Light Gray						•	•
06	Black				•	•	•	•
23	Gray						•	•
33	Light Pink				•	•	•	•
34	Light Blue				•	•	•	•
35	Taupe				•		•	•
50	Chestnut Brown						•	•
F3	Sterling				•			
F7	Mocha Taupe					•		
E5	Chocolate				•	•		
E6	Cliff				•			
E8	Mid Gray				•			
E9	Glacier				•	•		
F0	Dark Cliff Gray					•		
70	Palladium Black					•		
G1	Mid Cloud Gray					•		
G3	Ocean Blue					•		
G4	Olive Green					•		
G5	Chili Red					•		
Q2	Electric Green	•	•		•		•	•
Q3	Caribbean Pirate	•	•		•		•	•
Q4	Dragon Orange				•		•	•
Q5	Vanity Pink				•		•	•
Q6	Blue Lagoon Transparent				•		•	•
Q7	Royal Purple Transparent				•		•	•
13	Pure Transparent			•	•		•	•
T3	Precious Pink	•	•		•		•	•
XN/T7	Alpine White	•	•					
37	Blue Transparent			•	•		•	•
38	Purple Transparent			•	•		•	•
M6	Lava Red	•	•					
M7	Blue Ocean	•	•					
M8	Majesty Purple	•	•					

General data

Type:	Roger receiver Operates with Roger microphones
Operating conditions:	The product has been designed for trouble-free operation without restrictions when used as intended, unless otherwise stated in the user guide 0°C to +60°Celsius / +32°F to +140°Fahrenheit and relative humidity <95% (non condensing)
Transport and storage conditions:	-20°C to +60°Celsius / -4°F to +140°Fahrenheit and relative humidity of 90% for a long period of time

Roger characteristics

Frequency:	2.4GHz ISM Band
Transmission delay:	< 20 ms
Antenna:	Built-in ear level antenna
Backlink RF power:	0.02 mW

Power management

Power supply:	Supplied by the HI battery
Voltage range:	1.0 to 1.5V
Current drain*:	Active mode: 2.7 mA for $V_{BAT} = 1.2 V$ Stand-by: 0.5 mA for $V_{BAT} = 1.2 V$

Audio characteristics

Audio bandwidth:	100 Hz – 7.2 kHz
Distortion:	< 2% for $f_{mod} = 1 \text{ kHz}$
Audio signal output:	-54 dBV (transmitter in compression, $f_{mod} = 1 \text{ kHz}$, Surrounding noise level < 58 dB SPL) @ EasyGain = 0dB
Additional adaptive audio gain:	Up to 20 dB
EasyGain range:	-8 dB to +8 dB

Standards

Radiocom:	EN 300 440 FCC part 15.249
EMC:	EN 60601-1-2, EN 301 489 FCC part 15b
Water Resistant:	IP67 ¹ for Roger™ 19, Roger™ 18, Roger™ 15, Roger™ 11 and Roger™ 10

Size and Weight



	Roger™ 19	Roger™ 18	Roger™ 16	Roger™ 15	Roger™ 13	Roger™ 11	Roger™ 10
Height (connected to HI):	8.5 mm / 0.335 inch	8.1 mm / 0.319 inch	8.4 mm / 0.330 inch	8.5 mm / 0.335 inch	11 mm / 0.433 inch	8 mm / 0.315 inch	20 mm / 0.787 inch
Length:	14 mm / 0.551 inch	12.4 mm / 0.488 inch	11.8 mm / 0.465 inch	12.4 mm / 0.488 inch	11 mm / 0.433 inch	12 mm / 0.472 inch	15 mm / 0.591 inch
Width:	7.5 mm / 0.295 inch	7.6 mm / 0.299 inch	7.2 mm / 0.283 inch	8 mm / 0.315 inch	9 mm / 0.354 inch	9 mm / 0.354 inch	9 mm / 0.354 inch
Weight:	0.9 g / 0.0022 lb	0.9 g / 0.0022 lb	0.9 g / 0.0022 lb	0.9 g / 0.0022 lb	1.1 g / 0.0022 lb	1.0 g / 0.0022 lb	1.1 g / 0.0022 lb

¹IP67 indicates that when connected to a compatible hearing instrument the Roger receiver was not damaged beyond repair after 8 hours in a dust chamber, nor after being immersed in 1 meter (3 feet) of water for 30 minutes as defined by IEC60529.

* Valid for receivers with serial number higher than 1419NYD289. Receivers with lower serial number drain 3.3 mA mode in active and 700 uA in sleep mode.



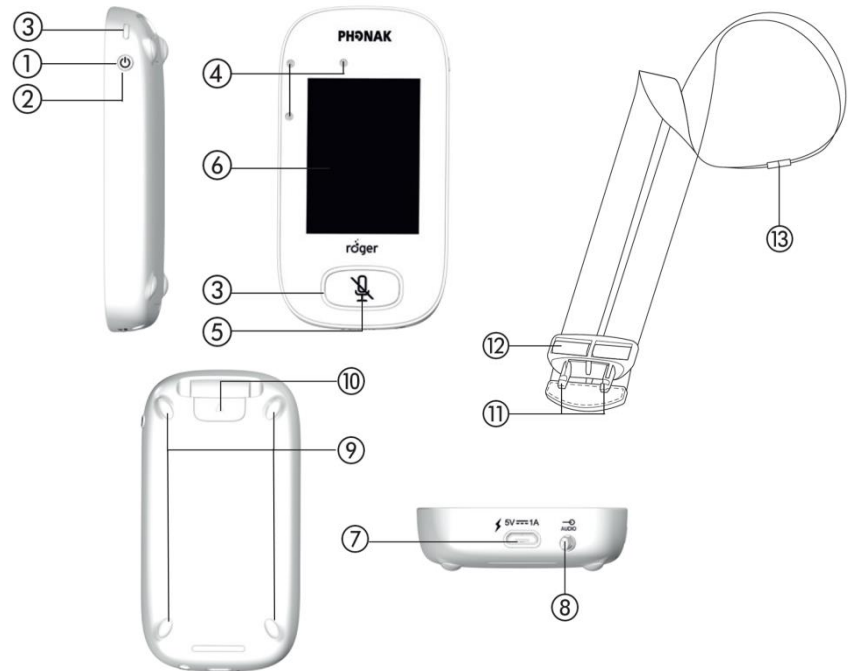
Technical Data

Roger™ Touchscreen Mic

The interface makes Roger Touchscreen Mic simple and intuitive to use in the classroom and allows both the teacher and students to easily know the microphone is working and transmitting. Voice of the teacher or parent, especially in noisy conditions, is directly heard in the ears. Small group learning activities are accessible to all children.

Description

- 1 On/Off
- 2 Wake/sleep
- 3 Indicator light
- 4 Microphones
- 5 Mute
- 6 Touchscreen
- 7 Micro-USB
- 8 Jack 3.5mm/ 1/8"
- 9 Feet
- 10 Lanyard: clip/remove button
- 11 Lanyard clip
- 12 Length adjustment
- 13 Safety breakaway



Features

Usability

- Touchscreen
- Intuitive icons for quick access to Roger function
- Easy swipe technology to scroll through menu
- Indicator lights
- Obvious On/Off and Mute

3 microphones

- Automatic microphone modes (Automatic, Small Group, Pointing, Lanyard)
- System of three intelligent embedded microphones for small group activities.

MultiTalker Network

- Co-teacher microphones
- Students pass-around microphones
- Roger Multimedia Hub

General information

Dimensions (L x W x H) :	104 x 55 x 16 mm (4.1" x 2.1" x 0.6")
Weight:	94 g (0.2 lbs)
Color:	Champagne/ black
Operating conditions:	0° to + 45° Celsius (+32° to +113° Fahrenheit) and relative humidity of <95% (non condensing)
Transport and storage conditions:	-20° to +60° Celsius (-4° to +140° Fahrenheit) and relative humidity of 90% for a long period



Power and battery information

Battery:	Lithium polymer 3.7 V DC
Charging time:	Approx. 2 hours Charging time depends on battery state
Capacity:	1200 mAh
Operating time:	Approx. 10 hours Remaining operating time is displayed in the status bar
Charging input:	Input: 100 - 240 V Output: 5 VDC/1A Connector: Micro-USB Cable length: 1.3 m (4.2 feet) (charging or connection to computer for upgrade, service)
	The battery cannot be over-charged. It may become warm during charging.
	Important notice: It is recommended to only use the original Phonak charging unit.

Microphones information

Number of microphones:	3 embedded microphones
Type:	3-array microphone
Mode:	Automatic, Small Group, Pointing, Lanyard
Accelerometer:	Detects and monitors the microphone position, allowing to automatically activate the appropriate microphone mode

Usage information

Touchscreen:	6.1 cm (2.4") color touchscreen. User interface to activate/deactivate functions
Wearing option:	Lanyard worn around neck
Lanyard :	- Clip to easily clip or remove the device from the lanyard - Clip to adjust length and place the device 20cm (8 inches) away from the talker mouth - Safety breakaway

Audio information

Audio input and output:	Wired (3.5mm jack)
Audio bandwidth:	100 Hz - 7.3 kHz

Roger information

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.
Transmission technology:	2.4 GHz including adaptive automatic frequency hopping
Power emission:	100 mW
Transmission range (clear line of sight, free field):	Up to 120 meters / 393 feet (to hearing device with RogerDirect™) Up to 25 meters / 80 feet (to Roger receiver)
Operating range for Connect feature:	10 cm (4")

Compatibility to Roger devices

Compatible Roger receivers:	(02) Roger receivers
Number of Roger receivers in use in a Roger network:	Unlimited
Compatible Roger microphones:	Roger Touchscreen Mic, Roger Pass-around, Roger inspiro®, Roger DynaMic® <small>* some new features for Roger Touchscreen Mic might not be available on previous Roger microphones</small>
Number of Roger microphones in use in a Roger network:	Up to 35
Compatible Roger hub:	Roger Multimedia Hub Roger inspiro audioHub® <small>* some new features for Roger Touchscreen Mic might not be available with previous Roger Hub</small>
Number of Roger hub in use in a Roger network:	1x Roger Multimedia Hub
Compatible Roger SoundField:	Roger DigiMaster 5000, Roger DigiMaster 7000 , Roger DigiMaster X <small>(software version 4.x or higher)</small>
Number of Roger SoundField in use in a network:	1x Roger DigiMaster 5000 2x Roger DigiMaster 7000 5x Roger DigiMaster X
Compatible Roger WallPilot:	Roger WallPilot

Accessories

Charging rack (L x W x H):	188 x 75 x 28 mm (7.4" x 2.9" x 1.1") 4-slots design to charge up to 4 devices together. It accommodates Roger Touchscreen Mic, Roger Pass-around, Roger Multimedia Hub.
Carry-on case:	Designed for Roger Touchscreen Mic
Boom microphone:	Head worn boom microphone for Roger Touchscreen Mic.
Belt clip:	Belt clip for Roger Touchscreen Mic.
Power supply adapter:	UK, AUS

Standards applied

Electrical safety:	IEC/ EN 60950-1
Radiocom 2.4 GHz:	EN 300 328
EMC:	EN 301.489-1,-3,-9,-17
SAR (2.4 GHz):	EN 62209-2 SAR 1g = 0.10 W/kg SAR 10g = 0.05 W/kg