

Roger DynaMic

Technical Data

roger



Roger DynaMic is a handy passaround microphone for use in classrooms.

It works as a secondary microphone on Phonak's MultiTalker Network, enabling speakers other than the primary Roger microphone wearer to wirelessly access any hearing-impaired

listeners in the audience, including via the Roger Dynamic SoundField amplification system.

Roger DynaMic's algorithms are optimized to avoid picking up unwanted noise without missing any useful speech signals.

Roger DynaMic features

- Crystal-clear sound quality
- Operates with Roger and Dynamic FM receivers
- MultiTalker Network (MTN) with 2 modes:
 - Classroom
 - Conference
- Easy user interface
- Comfortable in the hand

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.

Internet

Phonak Pediatric on Facebook:

www.facebook.com/phonakpediatric

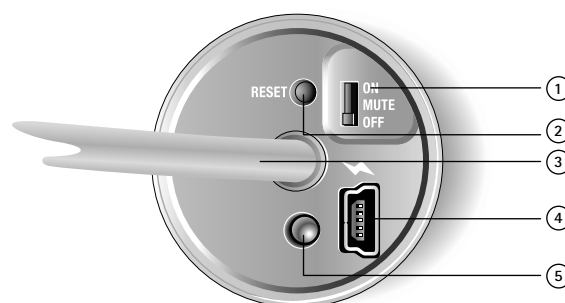
Phonak Pediatric on Twitter:

<https://twitter.com/PhonakPediatric>

www.phonakpro.com

Description

- ① On/off/mute slider
- ② Reset
- ③ Antenna
- ④ Mini-USB for charging
- ⑤ Indicator light (LED) for:
 - Battery status
 - Charging
 - Error status



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General data

Type:	Roger and Dynamic FM secondary microphone Operates with Roger receivers, Roger Dynamic SoundField and Dynamic FM receivers
Dimensions (L x Ø):	210 x 32 mm / 8.26 x 1.26 inches Antenna length: 150 mm / 5.9 inches
Weight:	110 g / 0.24 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: 1000 mAh Voltage: 3.7V Dimensions (L x W x H): 52 x 25.8 x 9.5 mm / 2 x 1 x 0.4 inches
Power supply:	Voltage input: 100 – 240 V Voltage output: 5 VDC / 1A Connector: Mini-USB Cable length: 1.5 m / 5 feet

Audio characteristics

Audio bandwidth:	100 Hz – 7.3 kHz
Microphone sensitivity:	97 dB SPL at fmod -1kHz for fdev -4.0 KHz (100% modulation) 70 dB SPL at fmod -1 kHz for fdev -3.0 KHz

FM system data

Wireless link between FM devices (Synchronization/Monitoring)

FSK frequency (transmitter to receiver):	40.96 kHz
OOK frequency (receiver to transmitter):	8.192 kHz
Operating range:	10 cm / 3.9 inches
Wireless datalink to FM receiver Frequency range:	Above the audio band

Accessories

Accessories:	Desk stand with clamp
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Roger characteristics

Transmission technology:	2.4 GHz including adaptive automatic frequency hopping
Power emission:	100 mW
Operating range:	20 m / 66 feet

Roger system data

Wireless link between Roger devices (Connect/Check)

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

MultiTalker Network

Operating range:	20 m / 66 feet
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Microphone characteristics

Microphone:	Array microphone with enhanced Voice Activity Detector for pick-up at distances of 15 cm (6") or less.
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FM characteristics

Frequency range:	169 - 176 MHz (H-Band) 214 - 220 MHz (N-Band)
Power emission:	5 mW
Operating range:	20 m / 66 feet

Standards

El. 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 SAR1g = 0.10 W/kg SAR 10g = 0.05 W/kg
Radiocom FM:	EN 300.422-1, -2 EN 300.330-1, -2