Roger inspiro

Technical Data

roger

Roger inspiro is a wireless microphone that together with Roger receivers gives children high-quality access to the voice of the teacher or parent, especially in noisy conditions.

Roger inspiro can be used with a shirt-worn clip microphone (iLapel) or a head-worn microphone (EasyBoom). Roger inspiro can also be used in a network together with other Roger microphones. Ideally suited to teachers, Roger inspiro is the perfect choice for use in regular schools and special schools for students with hearing loss.

Roger inspiro features

- Crystal-clear sound quality
- Operates with Roger and Dynamic FM receivers
- Easy and intuitive user interface
- Two application modes:
  - Roger
  - Roger + FM
- Two microphone options:
  - EasyBoom for best signal-to-noise ration, and maximum wearing comfort
  - iLapel for directional miniature microphone, and easy to clip
- MultiTalker Network (MTN) with 2 modes:
  - Classroom
  - Conference
- Connect to set-up device network
- Check to read/manage device data
- Customized softkey allocation

Internet

Phonak Pediatric on Facebook:
www.facebook.com/phonakpediatric

Phonak Pediatric on Twitter:
https://twitter.com/PhonakPediatric

www.phonakpro.com

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.

Description

① On/off slider
② Color screen
③ Microphone mute
④ Softkeys
⑤ Menu navigation: Up/Down, Back, OK
⑥ 3.5 mm audio input
⑦ Mini-USB for charging
⑧ Microphone cable wrapper
⑨ Clip
⑩ Neckloop
⑪ iLapel microphone

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General data

Type:	Roger and Dynamic FM microphone Operates with Roger receivers, Roger Dynamic SoundField and Dynamic FM receivers Operates with iLapel and EasyBoom microphone option
Dimensions (L x W x H):	83 x 56 x 24 mm / 3.26 x 2.20 x 0.94 inches
Weight:	69 g / 0.15 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: 3.7 V 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 / 1 A 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 -1 kHz for fdev -4.0 KHz (100 % modulation) 70 dB SPL at fmod -1kHz 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

EasyBoom	Microphone option

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

Number of talkers:	Up to 35 microphones
Network priority mode:	Classroom or conference mode can be selected
Operating range:	20 m / 66 feet

Microphone characteristics

iLapel microphone:	Array microphone with enhanced Voice Activity Detector for pick-up at distances of 15 cm / 6 inches or less.

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 SAR1 g = 0.10 W/kg SAR10 g = 0.05 W kg
Radiocom FM:	EN 300.422-1, -2 EN 300.330-1, -2

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