

Roger™ 20.

(02)

Technical Data



roger

Roger 20 is a Roger receiver that is compatible with the Cochlear Nucleus 7 and Nucleus 8 sound processors.

Simply attach the Roger 20 receiver to the Cochlear Nucleus 7/8 sound processor. When the speaker uses a Roger wireless microphone, Nucleus recipients benefit from industry-leading speech-in-noise performance.

Roger 20 features

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

What is Roger

Roger is the 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 receiver Operates with all Roger microphones
Length:	24.9 mm / 0.98 inch
Width:	9.3 mm / 0.366 inch
Height:	12.2 mm / 0.48 inch
Weight:	2.55 g / 0.09 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



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) at EasyGain = 0 dB
Adaptive audio gain:	Up to 20 dB
EasyGain range:	-8 dB to +8 dB

Power management

Power supply:	Supplied by the sound processor battery
Voltage range:	2.0 to 4.5 V
Current drain:	Active mode 2.8 mA for $V_{BAT} = 2.4$ V Sleep mode 0.55 mA for $V_{BAT} = 2.4$ V

Standards

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

Compatibility

Sound processor:	Cochlear Nucleus 7 and Nucleus 8
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Housing colors



Sand (M1)



Black (L9)



Brown (T1)



Grey (T2)



Silver (5A)



White (L8)