



# Roger™ 20

(02)

Technical Data

roger

**Roger 20 is a Roger receiver that is compatible with the Cochlear Nucleus 7 sound processor.**

Simply attach the Roger 20 receiver to the Cochlear Nucleus 7 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



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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) 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
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## Housing colors



Sand (M1)



Black (L9)



Brown (T1)



Grey (T2)



White (L8)