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# Roger design-integrated receivers (03)

Product information and technical data



**roger**

Roger design-integrated receivers (03) 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.com](http://www.phonakpro.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 (03) 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 (03) along with the audio signal.

### Effective stand-by mode

Roger receivers (03) 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.

## Phonak hearing instrument compatibility



**Roger 16 (03)**

Phonak Bolero Q-P  
Phonak Bolero Q-SP



**Roger 15 (03)**

Phonak Sky Q-RIC  
Phonak Sky Q-M13  
Phonak Naida Q-RIC  
Phonak Naida S CRT  
Phonak Bolero Q-M13  
Phonak Ambra M H20  
Phonak Solana M H20  
Phonak Cassia M H20  
Phonak Nios S H20



**Roger 13 (03)**

Phonak Ambra microP  
Phonak Ambra SP  
Phonak Solana microP  
Phonak Solana SP  
Phonak Cassia microP  
Phonak Cassia SP  
Phonak Dalia microP  
Phonak Dalia SP



**Roger 11 (03)**

Phonak Sky Q-SP  
Phonak Naida Q-SP  
Phonak Naida S SP  
Phonak Naida SP



**Roger 10 (03)**

Phonak Sky Q-UP  
Phonak Naida Q-UP  
Phonak Naida S UP  
Phonak Naida UP

Note: to check the compatibility of new Phonak hearing instruments visit [www.phonakpro.com](http://www.phonakpro.com)

## Options

	Roger 16 (03)	Roger 15 (03)	Roger 13 (03)	Roger 11 (03)	Roger 10 (03)
Battery protection latch	•	•	•	•	•
Tamperproof housing kit for babies and toddlers (0 - 36 month)		•		•	•

# Housing colors



Roger 16 (03)

Roger 15 (03)

Roger 13 (03)

Roger 11 (03)

Roger 10 (03)

		Roger 16 (03)	Roger 15 (03)	Roger 13 (03)	Roger 11 (03)	Roger 10 (03)
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	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 Grey		•			
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		•		•	•
37	Blue Transparent	•	•		•	•
38	Purple Transparent	•	•		•	•

## General data

Type:	Roger receiver Operates with Roger Pen and Roger Clip-On Mic
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:	2.4 GHz including adaptive automatic frequency hopping
Transmission delay:	< 20 ms
Antenna:	Built-in ear level antenna
Backlink RF power:	< 10 mW / MHz

## Power management

Power supply:	Supplied by the HI battery
Voltage range:	1.0 to 1.5V
Current drain:	Active mode: < 3.3 mA for $V_{BAT} = 1.2V$ Stand-by: < 700 uA for $V_{BAT} = 1.2V$

## Audio characteristics

Audio bandwidth:	100 Hz – 7.2 kHz
Distortion:	< 2% for $f_{mod} = 1$ kHz
Audio signal output:	-54 dBV (transmitter in compression, $f_{mod} = 1$ kHz, Surrounding noise level < 58 dB SPL)
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 <sup>1</sup> for Roger 15 IP54 <sup>2</sup> for Roger 11 and Roger 10

## Size and Weight



**Roger 16 (03)**

Height (connected to HI):	8.4 mm / 0.330 inch
Length:	11.8 mm / 0.465 inch
Width:	7.2 mm / 0.283 inch
Weight:	0.9 g / 0.0022 lb



**Roger 15 (03)**

Height (connected to HI):	8.5 mm / 0.335 inch
Length:	12.4 mm / 0.488 inch
Width:	8 mm / 0.315 inch
Weight:	0.9 g / 0.0022 lb



**Roger 13 (03)**

Height (connected to HI):	11 mm / 0.433 inch
Length:	11 mm / 0.433 inch
Width:	9 mm / 0.354 inch
Weight:	1.1 g / 0.0022 lb



**Roger 11 (03)**

Height (connected to HI):	8 mm / 0.315 inch
Length:	12 mm / 0.472 inch
Width:	9 mm / 0.354 inch
Weight:	1.0 g / 0.0022 lb



**Roger 10 (03)**

Height (connected to HI):	20 mm / 0.787 inch
Length:	15 mm / 0.591 inch
Width:	9 mm / 0.354 inch
Weight:	1.1 g / 0.0022 lb

<sup>1</sup>IP67 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.

<sup>2</sup>IP54 indicates that splashing water from any direction for 5 min had no harmful effect on the hearing instrument.