PHILIPS

HearLink

Technical data
HearLink 9050 | 7050 | 5050 | 3050
miniRITE

Philips HearLink 50 miniRITE (MNR) is a rechargeable hearing instrument suitable for slight to profound hearing loss. It includes our most advanced audiological features in SoundMap 3. Thanks to LE Audio and Bluetooth® Low Energy it supports hands-free communication and direct streaming for iPhone, iPad, Mac and select Android™ devices. It comes with the new miniFit Detect speaker system, four power levels and a wide variety of domes and custom moulds.

Speaker 60	Speaker 85	Speaker 100	Speaker 105
			
MNR	MNR	MNR	MNR

Technical features

- Hands-free communication[1]
- Direct streaming[2]
- LE Audio
- Bluetooth Low Energy technology
- Faster charging
- LED visual indicator
- miniFit Detect speakers
- Telecoil
- Hydrophobic coating

Accessories

- Philips HearLink 2 app
- Philips AudioClip
- Philips TV Adapter
- Philips Remote Control
- Philips Charger miniRITE (MNR)

General features

- Digital Programmable
- Automatic or Manual Volume Control
- Maximum Output Control System
- MPO-Maximum Power Output
- GC-Gain Control
- AGC-Automatic Gain Control
- Noise Reduction
- Feedback Management
- Dual Microphone
- FM Compatible via EduMic or Telecoil
- 4 Programs
- Processing Channels:
  - 64 channels for HearLink 9050,
  - 48 channels for HearLink 7050-5050-3050

For information on compatibility, please visit hearingsolutions.philips.com/compatibility

Operating and charging conditions
Temperature: +5°C to +40°C (41°F to 104°F)
Humidity: 5% to 93% relative humidity, non-condensing
Atmospheric pressure: 700 hPa to 1060 hPa

Transportation and storage conditions
Temperature and humidity shall not exceed the mentioned limits for extended periods during transportation and storage.

Transport
Temperature: -20°C to +60°C (-4°F to 140°F)
Humidity: 5% to 93% relative humidity, non-condensing
Atmospheric pressure: 700 hPa to 1060 hPa

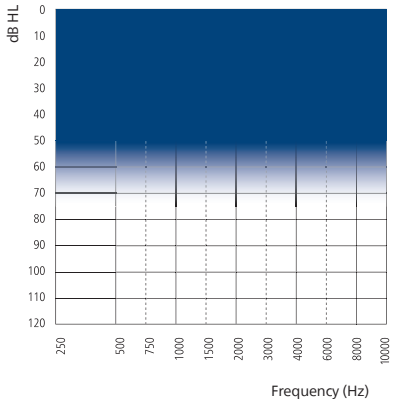
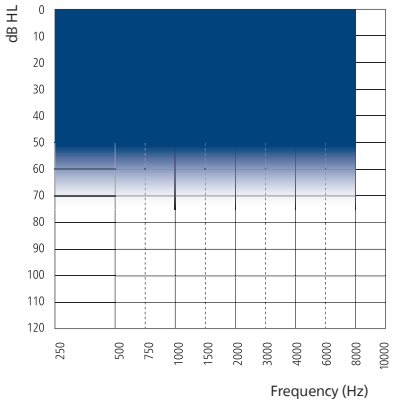
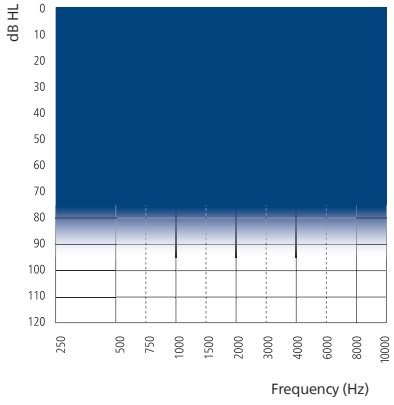
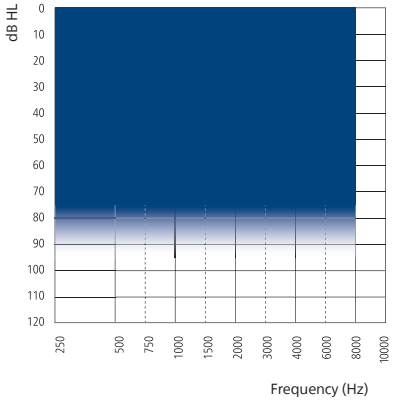
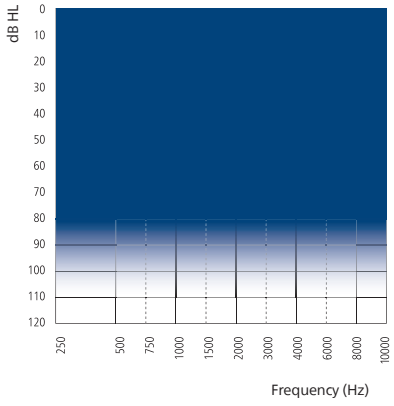
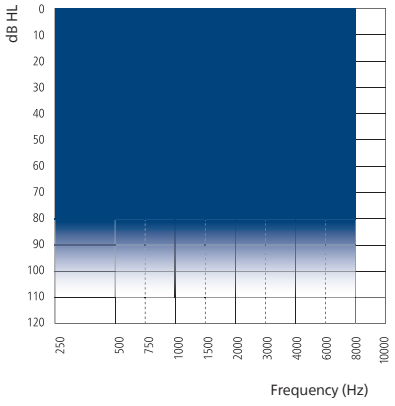
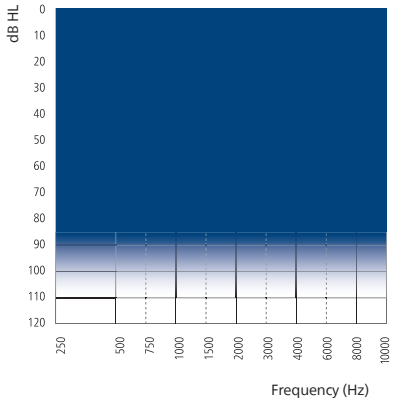
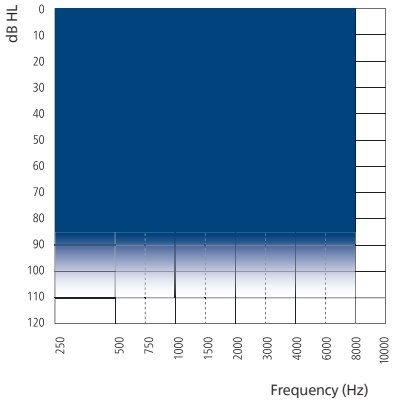
Storage
Temperature: -20°C to +30°C (-4°F to 86°F)
Humidity: 5% to 93% relative humidity, non-condensingg
Atmospheric pressure: 700 hPa to 1060 hPa

1) Hands-free communication is available on select devices
2) From iPhone, iPad, Mac and select Android devices

WARNING: No modification of this equipment is allowed.
Apple, the Apple logo, iPhone, iPad, Mac and the Mac logo are trademarks of Apple Inc., registered in the U.S. and other countries.

Made for iPhone | iPad · Mac · Works with android · IP68

Fitting ranges

Philips HearLink 9050	Philips HearLink 7050 | 5050 | 3050	
		60
		85
		100
		105

Feature overview

	HearLink 9050	HearLink 7050	HearLink 5050	HearLink 3050
SoundMap 3				
SoundGuide	•	•	-	-
Amplification				
Frequency bandwidth	10 kHz	8 kHz	8 kHz	8 kHz
Extended Dynamic Range	•	•	-	-
Low Frequency Enhancement	•	•	•	•
Frequency lowering	•	•	•	•
Comfort Control	4 Options	2 Options	-	-
Noise Reduction				
AI Noise Reduction	5 Options	4 Options	3 Options	2 Options
Speech Clarifier	3 Options	2 Options	-	-
Transition	4 Options	3 Options	2 Options	1 option
SoundProtect Transient Noise Reduction	6 Options	5 Options	4 Options	2 Options
SoundProtect Wind Noise Management	•	•	•	•
Soft Noise Management	•	•	•	•
Binaural Noise Management	•	•	•	-
Directionality				
Dynamic Directionality	•	•	•	-
Pinna Mode	2 Options	2 Options	•	•
Adaptive/Fixed/Omni Directionality	•	•	•	•
Feedback Canceller				
Strength control	•	•	•	•
SoundTie 3 with LE Audio, MFi and ASHA				
Direct streaming[1]	•	•	•	•
Hands-free communication[2]	•	•	•	•
Binaural coordination (NFMI)				
Binaural Volume and Program Change	•	•	•	•
Programming options				
Fitting Bands	24	20	18	14
Environments	13	12	12	9
Manual listening programs	4	4	4	4
HiFi Music	•	•	•	•
Airplane Program	•	-	-	-
Data Logging and Connection Count	•	•	•	•
Audible Indicators & Notify Me	•	•	•	•
Tap control	•	•	•	-
Adaptation Manager	•	•	•	•
CROS compatibility	•	•	•	•
Tinnitus SoundSupport	•	•	•	•

1) From iPhone, iPad, Mac and select Android devices
2) Hands-free communication is available on select devices

HearLink 9050 miniRITE

Ear Simulator

Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010



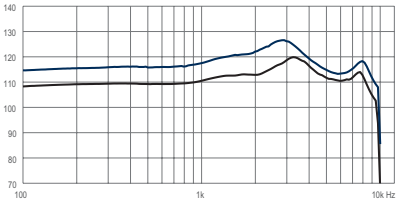
Technical information
Omnidirectional mode is used unless otherwise stated.

Speaker 60 / 100
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

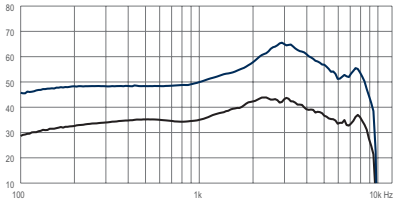
Speaker 85 / 105
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

Speaker 60 — Speaker 85

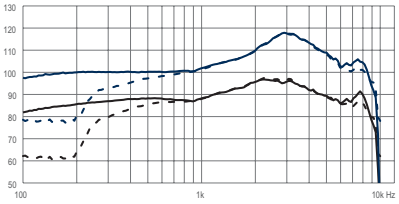
OSPL90 (dB SPL)



Full-on gain (dB)

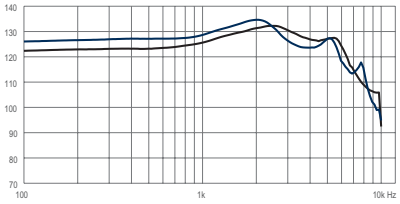


Frequency response (dB SPL)

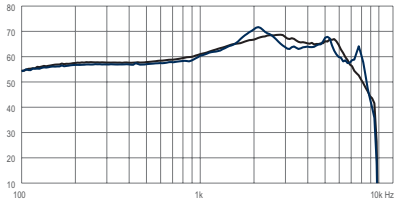


Speaker 100 — Speaker 105

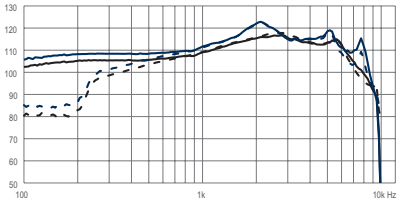
OSPL90 (dB SPL)



Full-on gain (dB)



Frequency response (dB SPL)



	Speaker 60	Speaker 85	Speaker 100	Speaker 105
OSPL90, Peak (dB SPL)	120	127	132	135
OSPL90, 1600 Hz (dB SPL)	113	121	130	133
OSPL90, HFA (dB SPL)	113	121	129	131
Full-on gain, Peak (dB)	44	66	69	72
Full-on gain, 1600 Hz (dB)[1]	40	54	65	65
Full-on gain, HFA (dB)	39	56	65	65
Reference test gain (dB)	33	46	54	57
Frequency range (Hz)	<100-9400	<100-9400	<100-8800	<100-8800
Telecoil output, 1 mA/m field (1600 Hz) (dB SPL)	71	85	97	97
Telecoil output, 10 mA/m field (1600 Hz) (dB SPL)	91	105	117	117
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<2	<2	<3	<3
Total harmonic distortion (Input 70 dB SPL), 1600 Hz (%)	<3	<3	<2	<3
Equivalent input noise level, Omni (dB SPL)	17	22	16	17
Equivalent input noise level, Dir (dB SPL)	27	30	26	27
Battery	Lithium-ion	Lithium-ion	Lithium-ion	Lithium-ion
Expected operating time, hours[2]	24	24	24	24

1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.
2) Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

HearLink 9050 miniRITE

2CC Coupler

Measured according to ANSI S3.22-2014,
IEC 60118-0:2015 and IEC 60318-5:2006



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Acoustic input: 60 dB SPL
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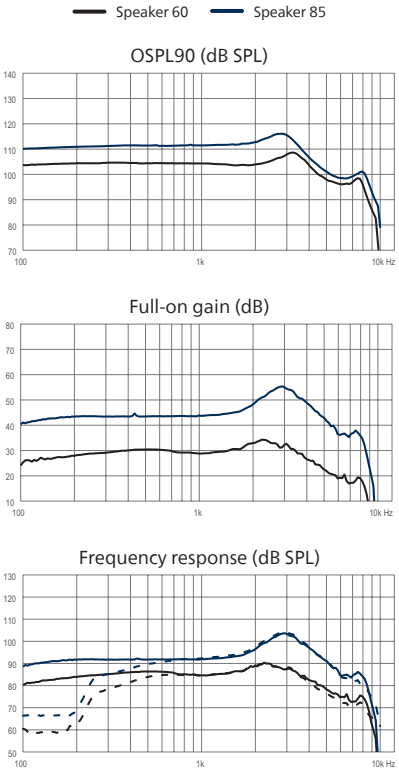

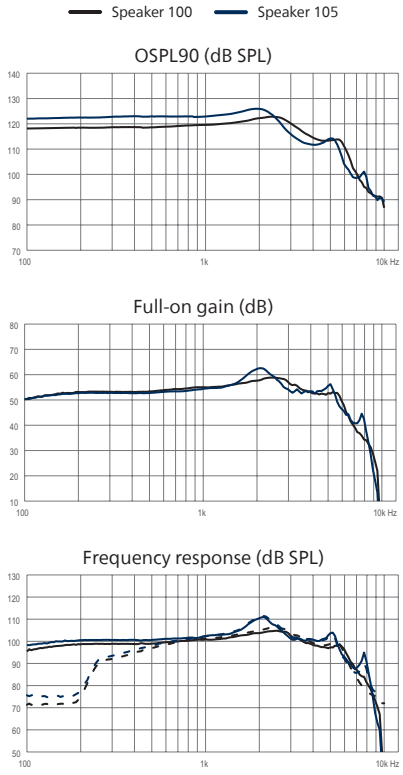

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OSPL90, Peak (dB SPL)	109	116	123	126
OSPL90, 1600 Hz (dB SPL)	104	112	121	125
OSPL90, HFA (dB SPL)	105	113	121	123
Full-on gain, Peak (dB)	34	55	59	63
Full-on gain, 1600 Hz (dB)[1]	31	45	57	57
Full-on gain, HFA (dB)	31	47	57	57
Reference test gain (dB)	27	36	43	45
Frequency range (Hz)	<100-8400	<100-8500	<100-7100	<100-8200
Telecoil output, 1 mA/m field (1000 Hz) (dB SPL)	60	75	86	86
Telecoil output, HFA-SPLITS L/R (dB SPL)	87	96	103	105
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<2	<2	<2	<2
Total harmonic distortion (Input 65 db SPL), 1600 Hz (%)	<2	<2	<2	<2
Equivalent input noise level, Omni (dB SPL)	18	19	16	17
Equivalent input noise level, Dir (dB SPL)	30	30	29	29
Battery	Lithium-ion	Lithium-ion	Lithium-ion	Lithium-ion
Expected operating time, hours[2]	24	24	24	24

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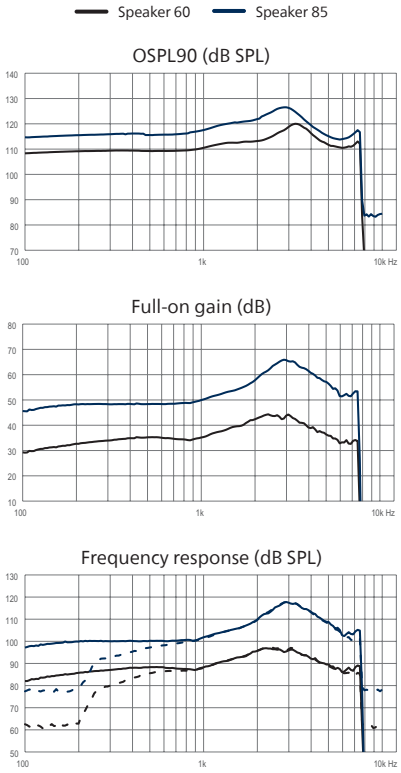

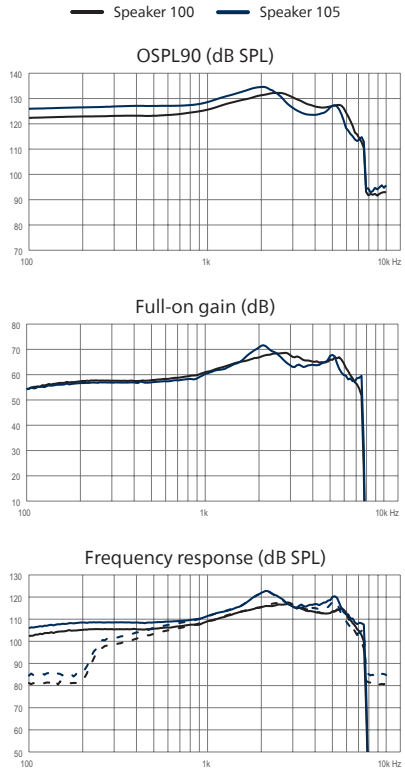

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Full-on gain, HFA (dB)	39	56	65	65
Reference test gain (dB)	33	46	54	57
Frequency range (Hz)	<100-7500	<100-7500	<100-7500	<100-7500
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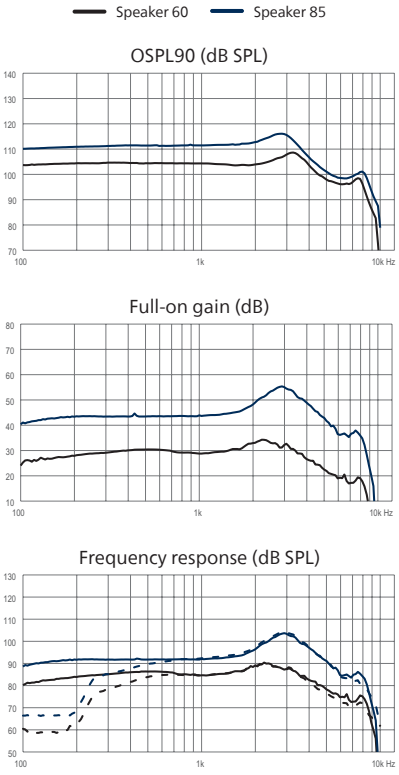

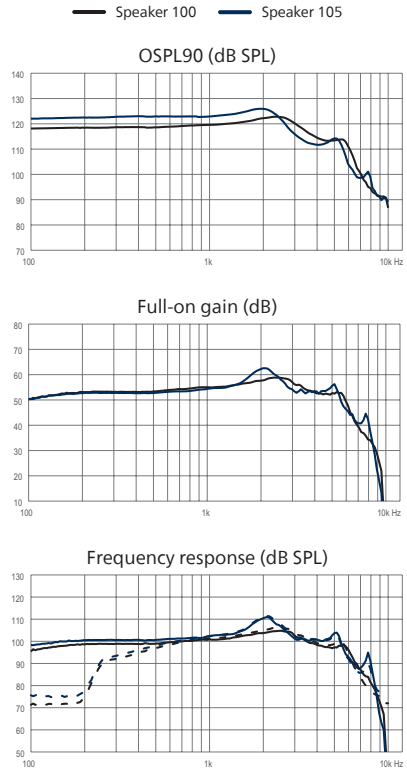

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