

# PHILIPS

## HearLink

## Specification Guide

# HearLink 9010 | 7010 | 5010 MNR T R

HearLink miniRITE T R is a rechargeable receiver-in-the-ear hearing instrument of the Philips HearLink family, suitable for mild to profound hearing losses, with a telecoil and double Program Button. It is a Made for iPhone® hearing instrument and supports Bluetooth® Low Energy (BLE) at 2.4 GHz. The miniRITE T R comes with the miniFit system, which includes 4 power levels and a wide variety of domes and custom molds. Powered by SoundMap technology, the HearLink miniRITE T R has our most automatic, advanced and flexible features.

### 60-Speaker

### 85-Speaker

### 100-Speaker

### 105-Speaker



9010 | 7010 | 5010 MNR T R  
(HER9012, HER7012, HER5012)

Made for

iPhone | iPad | iPod

### User scenario

### Hours of operation time

#### Light user

(with 0.5 h iPhone & 2 h TV)<sup>1)</sup>

= 24.7 hours of operation time<sup>2)</sup>

#### Moderate user

(with 1 h iPhone & 3 h TV)<sup>1)</sup>

= 23.9 hours of operation time<sup>2)</sup>

#### Heavy user

(with 1.5 h iPhone & 6 h TV)<sup>1)</sup>

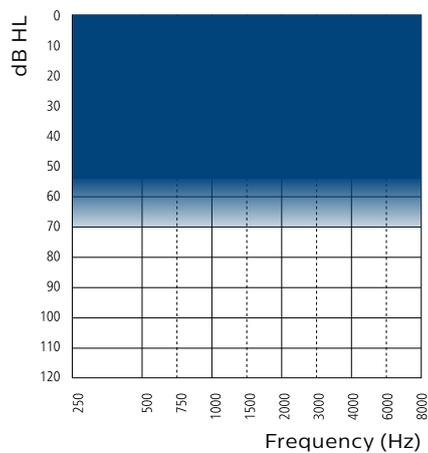
= 22.1 hours of operation time<sup>2)</sup>

<sup>1)</sup> This is in addition to normal hearing instrument use without streaming.

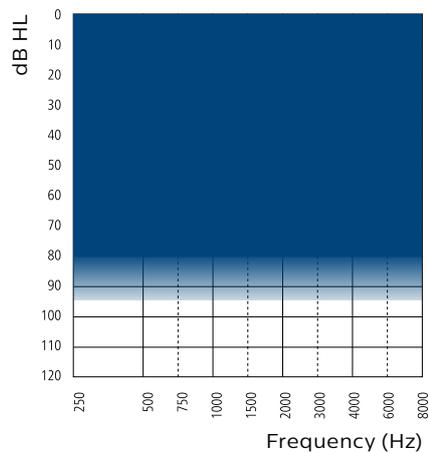
<sup>2)</sup> The operating time depends on the fitting level, the use of connectivity features, battery age and sound environment.

# HearLink miniRITE T R – Fitting range

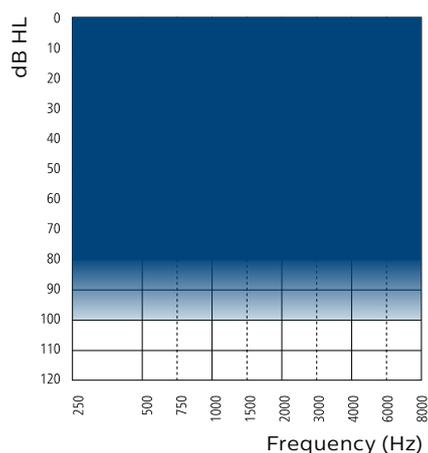
## 60-Speaker



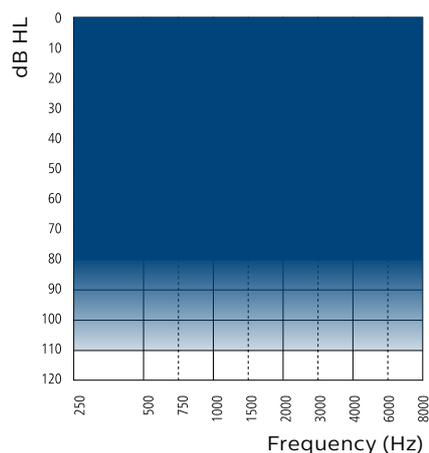
## 85-Speaker



## 100-Speaker



## 105-Speaker



## Technical features

- Double Program Button
- Telecoil
- miniFit speakers
- Hydrophobic coating
- IP68 rated
- 2.4 GHz Bluetooth® Low Energy
- NFMI (near-field magnetic induction)

## Accessories

- Philips HearLink app (for iOS and Android™)
- Remote Control
- TV Adapter
- FittingLINK 3.0 (wireless programming interface)
- AudioClip

# Feature overview

	HearLink 9010	HearLink 7010	HearLink 5010
<b>SoundMap Amplification</b>			
Adaptive Compress	10 options	6 options	2 options
Frequency bandwidth	10 kHz	8 kHz	8 kHz
Phoneme Focus	●	●	●
Envelope Focus	●	●	●
Extended Dynamic Range	●	–	–
Low Frequency Enhancement	●	●	●
Frequency Lowering	●	●	●
SoundMap Feedback Canceller	●	●	●
<b>SoundMap Noise Control</b>			
Directionality			
Multichannel Directionality	2 options: Hi/Med	1 option: Med	1 option: Med
True Ear	●	–	–
Fixed Directionality	●	●	●
Omni Directionality	●	●	●
Noise management			
Noise Reduction	4 options	4 options	3 options
Transition	4 options	3 options	2 options
Wind Noise Reduction	●	●	●
Soft Noise Reduction	●	●	●
Transient Noise Reduction	4 options	3 options	3 options
<b>SoundTie Connectivity and binaural coordination</b>			
2.4 GHz direct streaming	●	●	●
NFMI	●	●	●
Binaural Volume and Program Change	●	●	●
Binaural Noise Management	●	●	–
Non-Telephone Ear Control	●	●	●
<b>Programming options</b>			
General	●	●	●
Fitting bands	16	14	12
Environments	14	13	13
Manual listening programs	4	4	4
Concert	●	●	●
Airplane Program	●	–	–
Data Logging	●	●	●
Adaptation Manager	●	●	●

HearLink 9010|7010|5010 MNR T R instruments can be programmed with HearSuite 2019.1 or higher

## Operating conditions

Temperature: +5°C to +40°C

Humidity: 5 % to 93 %, non-condensing

## Storage and transportation conditions

Temperature and humidity shall not exceed the below limits for extended periods during transportation and storage

### Transport:

Temperature: –20°C to +60°C

Relative humidity: 5% to 93%, non-condensing

### Storage:

Temperature: –20°C to +30°C

Relative humidity: 5% to 93%, non-condensing

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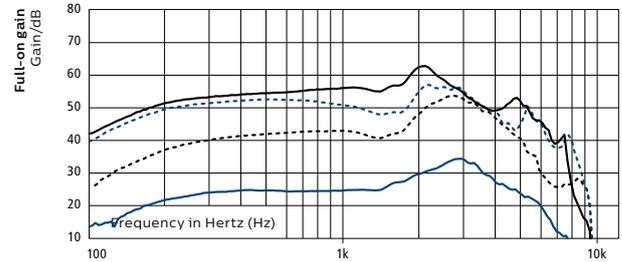
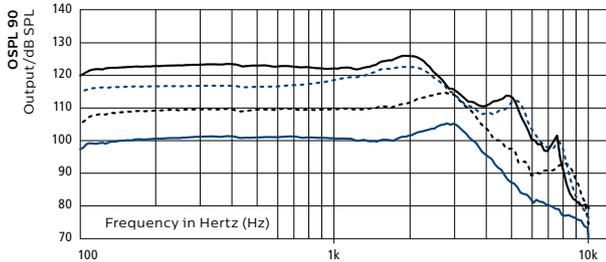
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# HearLink 9010

HER 9012, MNR T R

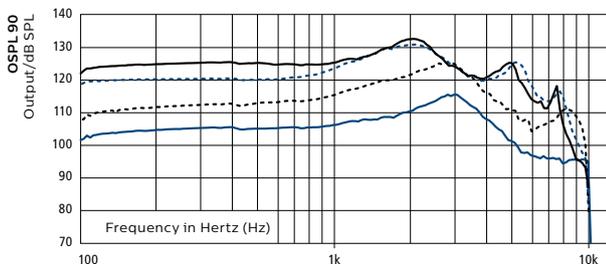
— 60-Speaker    ··· 85-Speaker    ··· 100-Speaker    — 105-Speaker

## 2CC Coupler



	60-Speaker	85-Speaker	100-Speaker	105-Speaker
OSPL90, Peak (dB SPL)	105	115	123	126
OSPL90, 1600 Hz (dB SPL)	100	111	122	124
OSPL90, HFA (dB SPL)	101	112	120	122
Full-on Gain, Peak (dB)	34	54	57	63
Full-on Gain, 1600 Hz (dB)	27	42	48	57
Full-on Gain, HFA (dB)	28	46	52	57
Reference Test Gain (dB)	25	34	43	45
Battery	Li-ion	Li-ion	Li-ion	Li-ion
Distortion 500/800/1600 Hz (%)	<2/<2/<2	<2/<2/<2	<2/<2/<2	<2/<2/<2
Frequency Range (Hz)	100-7900	100-6900	100-8700	100-7700
Equivalent Input Noise <sup>1)</sup> dB(A)	19	20	17	16
Telecoil 1 mA/m 1600 Hz, IEC (dB SPL)	59	73	79	87
Telecoil HFA SPLITS (dB SPL)	75	83	91	95

## Ear Simulator



	60-Speaker	85-Speaker	100-Speaker	105-Speaker
OSPL90, Peak (dB SPL)	115	126	131	133*
OSPL90, 1600 Hz (dB SPL)	108	120	130	130
OSPL90, HFA (dB SPL)	-	-	-	-
Full-on Gain, Peak (dB)	45	64	66	70
Full-on Gain, 1600 Hz (dB)	36	51	56	63
Full-on Gain, HFA (dB)	-	-	-	-
Reference Test Gain (dB)	29	44	49	55
Battery	Li-ion	Li-ion	Li-ion	Li-ion
Distortion 500/800/1600 Hz (%)	<2/<2/<2	<2/<2/<2	<6/<2/<2	<2/<2/<3
Frequency Range (Hz)	-	-	-	-
Equivalent Input Noise <sup>1)</sup> dB(A)	20	24	21	17
Telecoil 1 mA/m 1600 Hz, IEC (dB SPL)	68	80	86	94

<sup>1)</sup> Technical data measured with expansion, corresponding to the test box measurement settings.

"2cc" refers to a coupler according to IEC 60318-5:2006. "Ear simulator" refers to a coupler according to IEC 60318-4:2010.

Applied versions: IEC 60118-0 /A1:1994, IEC 60118-1 /A1:1998, IEC 60118-7: 2005, ANSI S3.22: 2014, IEC 60118-0:2015.

Full-on gain is measured with the gain control of the hearing instruments set to its 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+A1:1994 but without influence of feedback.

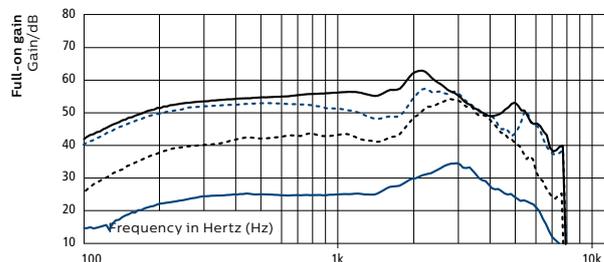
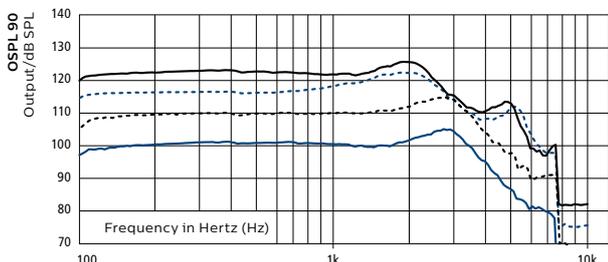
\* Special care should be taken when fitting and using a hearing instrument with maximum sound pressure capability in excess of 132 dB SPL (IEC 60318-4) since there may be a risk of impairing the remaining hearing of the hearing instrument user.

# HearLink 7010 | 5010

HER7012, HER5012, MNR T R

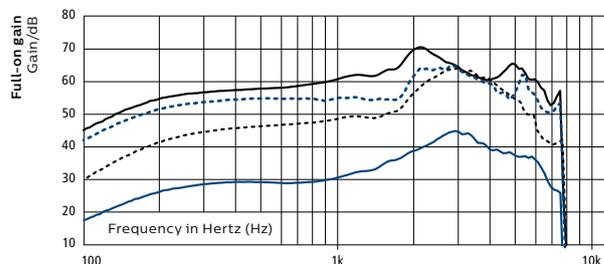
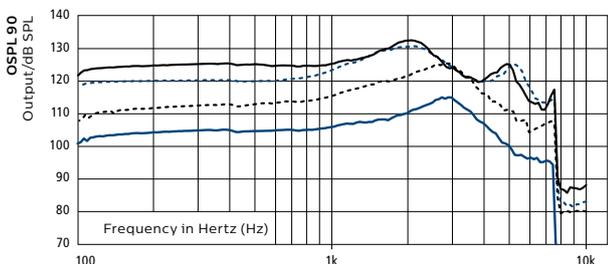
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Full-on Gain, Peak (dB)	34	54	57	63
Full-on Gain, 1600 Hz (dB)	27	42	48	57
Full-on Gain, HFA (dB)	28	46	52	57
Reference Test Gain (dB)	24	34	43	45
Battery	Li-ion	Li-ion	Li-ion	Li-ion
Distortion 500/800/1600 Hz (%)	<2/<2/<2	<2/<2/<2	<2/<2/<2	<2/<2/<2
Frequency Range (Hz)	100-7700	100-6900	100-7700	100-7700
Equivalent Input Noise <sup>1)</sup> dB(A)	18	19	18	16
Telecoil 1 mA/m 1600 Hz, IEC (dB SPL)	60	73	79	87
Telecoil HFA SPLITS (dB SPL)	75	83	91	95

## Ear Simulator



	60-Speaker	85-Speaker	100-Speaker	105-Speaker
OSPL90, Peak (dB SPL)	115	126	131	133*
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Full-on Gain, Peak (dB)	45	64	66	70
Full-on Gain, 1600 Hz (dB)	36	51	55	63
Full-on Gain, HFA (dB)	-	-	-	-
Reference Test Gain (dB)	29	44	48	55
Battery	Li-ion	Li-ion	Li-ion	Li-ion
Distortion 500/800/1600 Hz (%)	<2/<2/<2	<2/<2/<2	<5/<3/<2	<2/<2/<3
Frequency Range (Hz)	-	-	-	-
Equivalent Input Noise <sup>1)</sup> dB(A)	22	24	23	20
Telecoil 1 mA/m 1600 Hz, IEC (dB SPL)	69	81	86	93

<sup>1)</sup> Technical data measured with expansion, corresponding to the test box measurement settings.

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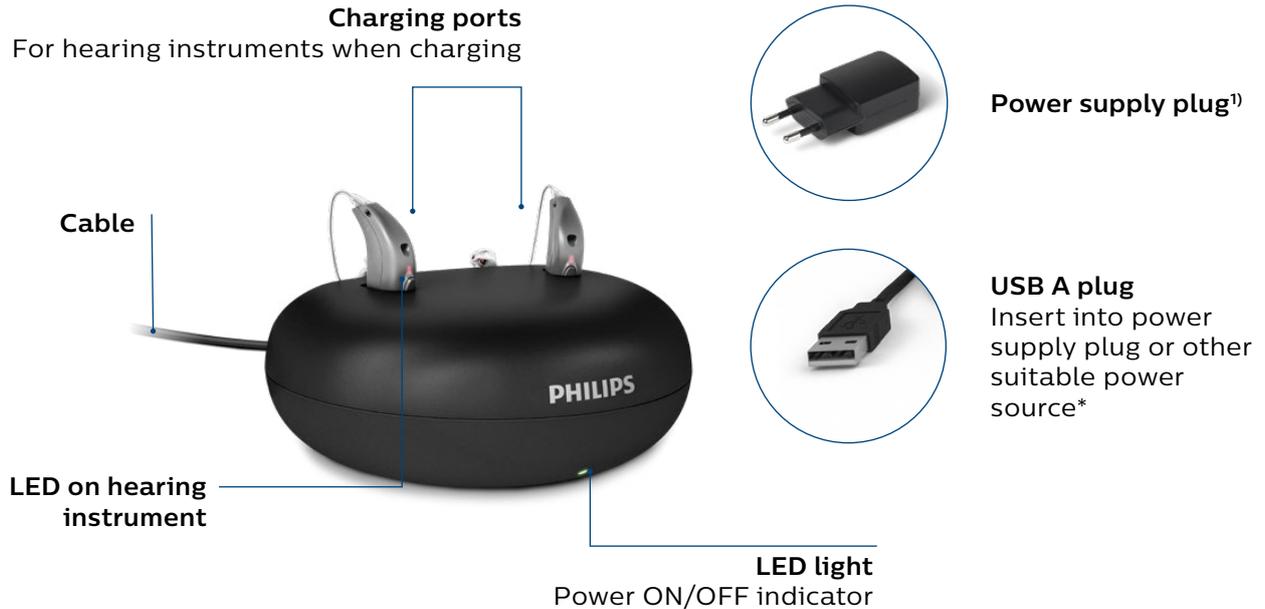
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# Charger, miniRITE T R – Overview

## Charger, miniRITE T R

The charger for HearLink miniRITE T R uses inductive technology that allows contactless charging of two hearing instruments via induction coil. Furthermore, the magnetic connection in the charger prevents the hearing instruments from falling out. When the hearing instruments are inserted into the charger, it automatically starts charging. The hearing instruments turn ON when they are removed from the charger.



### Packaging set

- Travel pouch
- User Guide
- Power supply plug

### LED light on hearing instruments

- Charging status indication
- Charging = Red
- Fully charged = Green

### Charging time of lithium-ion battery

- 3 h = Fully charged
- 1 h = 50 % charged
- 30 min = 25 % charged
- 15 min = 1 h use including 15 min streaming

<sup>1)</sup> Power plug will vary from country to country  
\* USB 2.0 high power (500 mA output) required.

# Charger, miniRITE T R – Technical data

## Charger, miniRITE T R

Designed for/compatibility	HearLink miniRITE T R
Dimensions	Ø95 mm /total height of 39 mm
Weight	140 grams
Color	Black
Power supply plug	USB A
Status indications	LED on charger indicates Charger ON/OFF status LED on hearing instrument indicates charging status
Charging time of hearing instruments	Max 3 hours depending on initial state of the battery (Temperature: +5 °C to +35 °C) Max 4 hours depending on initial state of the battery (Temperature: +35 °C to +40 °C)
Power source	Supplied power supply unit
Input voltage	5 V DC
Input current	< 0.2 A (charging two hearing instruments) <10mA stand-by (no hearing instruments inserted)
Cable	Fixed mounted cable / 150 cm
Connected to external equipment	When connected to external equipment plugged into a wall outlet, this equipment must comply with IEC-62368 (or IEC-60065, IEC-60950 until June 20, 2019) or equivalent safety standards.

## Conditions of use

Operating conditions	Temperature: +5 °C to +40 °C Relative humidity: 5 % to 93 %, non-condensing
Storage and transportation conditions	Temperature: -25 °C to +70 °C Relative humidity: 5 % to 93 %, non-condensing
Atmospheric pressure	700 hPa to 1060 hPa

## Technical data: Power supply unit

Power supply unit	AN05x – 050A
Input voltage	100 – 240 V AC
Input current	0.2 A
Input frequency	50 – 60 Hz
Output voltage	5 V DC
Output current	1 A



**SBO Hearing A/S**  
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