

Specification Guide

HearLink 7020 | 3020 BTE SP & BTE UP

HearLink BTE SP and BTE UP are the most powerful hearing instruments of the Philips HearLink family, suitable for severe to profound hearing losses. They include a telecoil, a single and double Program Button, and come with an undamped earhook. Philips HearLink is a Made for iPhone® hearing instrument and supports Bluetooth® Low Energy (BLE) at 2.4 GHz. Powered by SoundMap technology, the HearLink BTE SP and BTE UP have our most advanced features.

Super Power

Salling

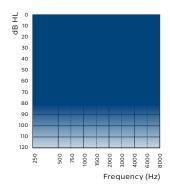
HL 7020 | 3020 BTE SP (HEB7021, HEB3021)

Ultra Power



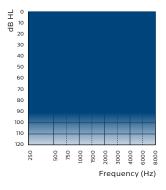
HL 7020 | 3020 BTE UP (HEB7022, HEB3022)

Made for **≰** iPhone | iPad | iPod



Technical features

- 2.4 GHz Bluetooth® Low Energy
- NFMI (near-field magnetic induction)
- · 13 size battery for BTE SP
- 675 size battery for BTE UP
- · Double and single Program Button
- · Multicolor LED indicator
- · Telecoil
- Hydrophobic coating
- · IP68 rated



Accessories & options

- Philips HearLink app (for iOS and Andorid™)
- Remote Control
- TV Adapter
- FittingLINK 3.0 (wireless programming interface)
- AudioClip
- Direct Audio Input (DAI) adapter 1000
- FM adapter 10
- · Tamper-resistant battery drawer
- · Damping element

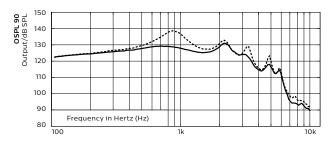
HearLink 7020 | 3020

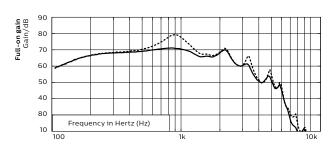
HEB7021, HEB3021, BTE SP

- Earhook damped

··· Earhook undamped

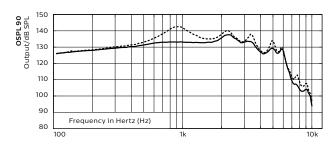
2cc coupler

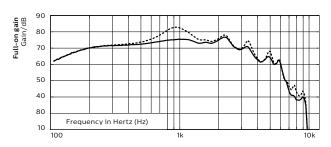




	Earhook damped	Earhook undamped
OSPL90, peak (dB SPL)	131	139*
OSPL90, 1600 Hz (dB SPL)	125	127
OSPL90, HFA (dB SPL)	127	130
Full-on gain, peak (dB)	71	79
Full-on gain, 1600 Hz (dB)	66	67
Full-on gain, HFA (dB)	67	70
Reference test gain (dB)	50	53
Quiescent current (mA)	1.4	1.4
Operating current (mA)	2.2	2.5
Distortion 500/800/1600 Hz (%)	<2/3/<2	4/<2/<2
Frequency range (Hz)	100-6300	100-6100
Equivalent input noise ¹⁾ (dB SPL)	18	19
Telecoil 1 mA/m 1000 Hz, IEC (dB SPL)	105	110
Telecoil HFA SPLITS (dB SPL)	111	115

Ear simulator





	Earhook damped	Earhook undamped
OSPL90, peak (dB SPL)	138*	143*
OSPL90, 1600 Hz (dB SPL)	133*	135*
OSPL90, HFA (dB SPL)	134*	138*
Full-on gain, peak (dB)	77	83
Full-on gain, 1600 Hz (dB)	74	75
Full-on gain, HFA (dB)	74	77
Reference test gain (dB)	58	61
Quiescent current (mA)	1.4	1.4
Operating current (mA)	1.6	1.6
Battery size	13	13
Distortion 500/800/1600 Hz (%)	<2/4/3	4/<2/<2
Frequency range (Hz)	100-6700	100-6500
Equivalent input noise ¹⁾ (dB SPL)	17	18
Telecoil 1 mA/m 1600 Hz, IEC (dB SPL)	107	109

 $^{^{1\!)}}$ Technical data measured with expansion, corresponding to the test box measurement settings.

[&]quot;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 aid 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.

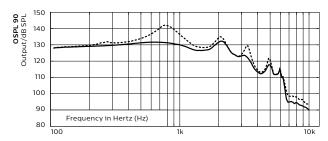
HearLink 7020 | 3020

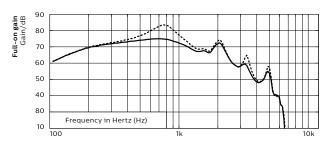
HEB7022, HEB3022, BTE UP

- Earhook damped

··· Earhook undamped

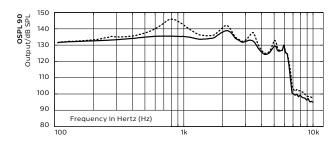
2cc coupler

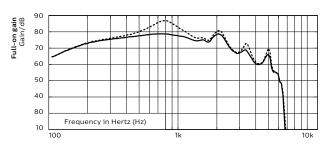




	Earhook damped	Earhook undamped
OSPL90, peak (dB SPL)	132	142*
OSPL90, 1600 Hz (dB SPL)	127	128
OSPL90, HFA (dB SPL)	127	130
Full-on gain, peak (dB)	75	83
Full-on gain, 1600 Hz (dB)	68	69
Full-on gain, HFA (dB)	67	69
Reference test gain (dB)	51	53
Quiescent current (mA)	1.5	1.5
Operating current (mA)	3.6	4.1
Distortion 500/800/1600 Hz (%)	4/4/<2	9/<2/3
Frequency range (Hz)	100-5300	100-5300
Equivalent input noise1) (dB SPL)	21	23
Telecoil 1 mA/m 1000 Hz, IEC (dB SPL)	106	110
Telecoil HFA SPLITS (dB SPL)	112	112

Ear simulator





	Earhook damped	Earhook undamped
OSPL90, peak (dB SPL)	139*	146*
OSPL90, 1600 Hz (dB SPL)	134*	136*
OSPL90, HFA (dB SPL)	134*	138*
Full-on gain, peak (dB)	79	87
Full-on gain, 1600 Hz (dB)	75	76
Full-on gain, HFA (dB)	74	77
Reference test gain (dB)	59	61
Quiescent current (mA)	1.5	1.5
Operating current (mA)	1.8	1.8
Battery size	675	675
Distortion 500/800/1600 Hz (%)	4/6/4	11/<2/3
Frequency range (Hz)	100-6000	100-6000
Equivalent input noise¹) (dB SPL)	17	19
Telecoil 1 mA/m 1600 Hz, IEC (dB SPL)	108	110

 $^{^{1)}}$ Technical data measured with expansion, corresponding to the test box measurement settings.

Full-on gain is measured with the gain control of the hearing aid 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.

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^{*} 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.

Feature overview

Adaptive Compress 6 options — Phoneme Focus ● ● ● Phoneme Focus ● ● Extended Dynamic Range ● ● ● Extended Sound Range Programs ● Extended Sound Range Programs ● ● Extended Sound Range Programs Programs Programs ● Ext		HearLink 7020	HearLink 3020
Phoneme Focus ● ● Envelope Focus ● ● Extended Dynamic Range ● ● Low Frequency Enhancement ● ● Frequency Lowering ● ● SoundMap Feedback Canceller ● ● SoundMap Noise Control SoundMap Feedback Canceller ● Whiltichannel Directionality Medium Low Fixed Directionality ● ● Omni Directionality ● ● Moise Preduction 4 options ● Noise Reduction 4 options ● Transition 3 options ● Soft Noise Reduction ● ● Soft Noise Reduction ● ● Transient Noise Reduction ● ● VC step size 2 options 2 options SoundTie Connectivity and binaural coordination ● ● 2.4 GHz Bluetooth® Low Energy ● ● VEMI ● ● Sinaural Volume and Program Change	SoundMap Amplification		
	Adaptive Compress	6 options	-
	Phoneme Focus	•	•
Low Frequency Enhancement Frequency Lowering SoundMap Feedback Canceller SoundMap Noise Control Fixect Directionality Multichannel Directionality Multichannel Directionality Multichannel Directionality Moise Reduction Moise Reduction Mind Noise Mi	Envelope Focus	•	•
Frequency Lowering SoundMap Feedback Canceller SoundMap Feedback Canceller SoundMap Feedback Canceller SoundMap Feedback Canceller SoundMap Noise Control Directionality Sound Soun	Extended Dynamic Range	•	-
SoundMap Feedback Canceller	Low Frequency Enhancement	•	•
SoundMap Noise Control Directionality	Frequency Lowering	•	•
Multichannel Directionality Multichannel Directionality Fixed Directionality Omni Directionality Noise Reduction Transition Soft Noise Reduction Wind Noise Reduction Soft Noise Reduction Transient Noise Reduction Transient Noise Reduction 3 options VC step size 2 options 2 options SolundTie Connectivity and binaural coordination 2.4 GHz Bluetooth® Low Energy A GHz Bluetooth	SoundMap Feedback Canceller	•	•
Multichannel Directionality Medium Low Fixed Directionality ● ● Omni Directionality ● ● Noise management Understand the program of the program of program of programs ● ● Transition 3 options - Wind Noise Reduction ● ● Soft Noise Reduction ● ● Transient Noise Reduction 3 options ● VC step size 2 options 2 options SoundTie Connectivity and binaural coordination Understand the program of the program	SoundMap Noise Control		
Fixed Directionality Omni Directionality Omni Directionality Noise management Noise Reduction A options Transition Transition Soft Noise Reduction Soft Noise Reduction Transient Noise Reduction Transi	Directionality		
Omni Directionality Noise management Noise Reduction 4 options 5 Transition 3 options - Wind Noise Reduction	Multichannel Directionality	Medium	Low
Noise Management Noise Reduction A options Transition Soft Noise Reduction Soft Noise Reduction Transient Noise Reduction Transient Noise Reduction VC step size 2 options SoundTie Connectivity and binaural coordination A GHZ Bluetooth® Low Energy A GENERAL Bluetooth® Low Energy A G	Fixed Directionality	•	•
Noise Reduction 4 options	Omni Directionality	•	•
Transition 3 options — Wind Noise Reduction • • • • • • • • • • • • • • • • • • •	Noise management		
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Transient Noise Reduction VC step size 2 options 4 options 5 options 5 options 5 options 5 options 5 options 5 options 6 options 7 options 6 options 7 options 8 options 8 options 9 options 1 o	Wind Noise Reduction	•	•
VC step size 2 options 2 options SoundTie Connectivity and binaural coordination 2.4 GHz Bluetooth® Low Energy NFMI Binaural Volume and Program Change Binaural Noise Management Non-Telephone Ear Control Programming options General Fitting bands Fitting bands Manual Listening Programs A 4 Concert Data Logging	Soft Noise Reduction	•	•
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Non-Telephone Ear Control Programming options General Fitting bands Fivironments Manual Listening Programs 4 4 Concert Data Logging • • • • • • • • • • • • •	Binaural Volume and Program Change	•	•
Programming options General ● ● ● Fitting bands 14 10 Environments 13 10 Manual Listening Programs 4 4 Concert ● - Data Logging ● ●	Binaural Noise Management	•	-
General ● ● Fitting bands 14 10 Environments 13 10 Manual Listening Programs 4 4 Concert ● - Data Logging ● ●	Non-Telephone Ear Control	•	•
Fitting bands 14 10 Environments 13 10 Manual Listening Programs 4 4 Concert ● - Data Logging ● ●	Programming options		
Environments 13 10 Manual Listening Programs 4 4 Concert ● - Data Logging ● ●	General	•	•
Manual Listening Programs 4 4 Concert	Fitting bands	14	10
Concert Data Logging • •	Environments	13	10
Data Logging • •	Manual Listening Programs	4	4
	Concert	•	-
Adaptation Manager • •	Data Logging	•	•
	Adaptation Manager	•	•

HearLink 7020|3020 BTE SP and BTE UP instruments can be programmed with HearSuite 2019.2 or higher

Operating conditions

- · Temperature: +1 °C to +40 °C (+34 °F to +104 °F)
- · 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:

- · Temperature: -25 °C to +60 °C (-13 °F to +140 °F) · Humidity: 5 % to 93 %, non-condensing



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SBO Hearing A/S Kongebakken 9 DK-2765 Smørum Denmark

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