

## TH Premium / Advanced 6 RIC LI

### Technical Data

Made for  
iPhone | iPad | iPod



#### S-Receiver

- 46 dB / 110 dB SPL (2 ccm coupler)
- 56 dB / 120 dB SPL (ear simulator)

#### M-Receiver

- 60 dB / 119 dB SPL (2 ccm coupler)
- 70 dB / 129 dB SPL (ear simulator)

#### P-Receiver

- 65 dB / 122 dB SPL (2 ccm coupler)
- 75 dB / 131 dB SPL (ear simulator)

#### HP-Receiver

- 75 dB / 131 dB SPL (2 ccm coupler)
- 83 dB / 138 dB SPL (ear simulator)

# TH Premium/Advanced 6 RIC LI | Technical Data

| Type  | S-Receiver                       |                 | M-Receiver                       |                 |
|---|----------------------------------|-----------------|----------------------------------|-----------------|
|   | 2 ccm coupler                    | Ear simulator   | 2 ccm coupler                    | Ear simulator   |
| <b>Output sound pressure level</b>                      |                                  |                 |                                  |                 |
| OSPL 90 at 1.6 kHz                                      | –                                | 110 dB SPL      | –                                | 123 dB SPL      |
| OSPL 90 (Peak)  | 110 dB SPL                       | 120 dB SPL      | 119 dB SPL                       | 129 dB SPL      |
| HFA-OSPL 90   | 102 dB SPL                       | –               | 115 dB SPL                       | –               |
| <b>Gain</b>   |                                  |                 |                                  |                 |
| FOG at 1.6 kHz  | –                                | 44 dB           | –                                | 58 dB           |
| FOG (peak)  | 46 dB                            | 56 dB           | 60 dB                            | 70 dB           |
| HFA-FOG   | 38 dB                            | –               | 51 dB                            | –               |
| Reference test gain                                     | 25 dB                            | 35 dB           | 38 dB                            | 48 dB           |
| <b>Frequency, noise and directivity</b>                 |                                  |                 |                                  |                 |
| Frequency range Premium                                 | 100 – 10000 Hz                   | 100 – 10000 Hz  | 100 – 9500 Hz                    | 100 – 10000 Hz  |
| Advanced  | 100 – 8200 Hz                    | 100 – 8300 Hz   | 100 – 8200 Hz                    | 100 – 8300 Hz   |
| Equivalent input noise                                  | 16 dB SPL                        | 19 dB SPL       | 16 dB SPL                        | 19 dB SPL       |
| Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz | 1 / 1 / 1 / 1 %                  | 1 / 1 / 2 / – % | 1 / 1 / 1 / 1 %                  | 2 / 2 / 3 / – % |
| Tinnitus Function broadband                             | 65 dB SPL                        | –               | 70 dB SPL                        | –               |
| AI-DI   | 4.0 dB                           |                 | 4.0 dB                           |                 |
| <b>Inductive coil sensitivity</b>                       |                                  |                 |                                  |                 |
| MASL (1 mA/m) at 1.6 kHz                                | –                                | –               | –                                | –               |
| HFA MASL (1 mA/m)                                       | –                                | –               | –                                | –               |
| HFA SPLITS (left/right)                                 | –                                | –               | –                                | –               |
| RSETS (left/right)                                      | –                                | –               | –                                | –               |
| HFA SPLIV   | –                                | –               | –                                | –               |
| <b>Battery</b>  |                                  |                 |                                  |                 |
| Battery runtime (without streaming)                     | up to 28 h                       |                 | up to 28 h                       |                 |
| Battery runtime (incl. 5 h streaming)                   | up to 24 h                       |                 | up to 24 h                       |                 |
| <b>Cellphone Compatibility</b>                          |                                  |                 |                                  |                 |
| Microphone mode   | 0.65 – 0.96 GHz<br>1.4 – 2.7 GHz |                 | 0.65 – 0.96 GHz<br>1.4 – 2.7 GHz |                 |
| Telecoil mode   | –                                |                 | –                                |                 |

Please find additional information to the values on page “Further information”.

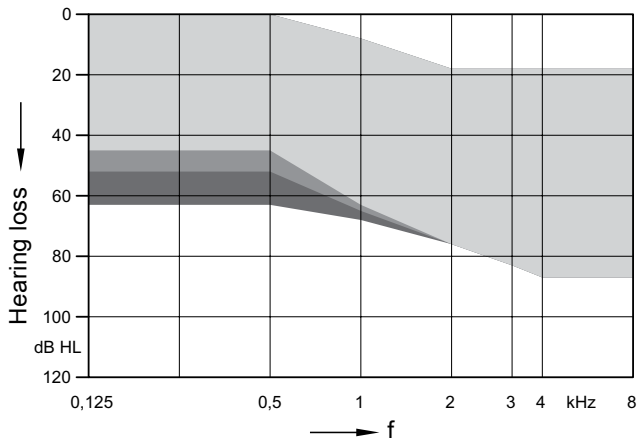
# TH Premium/Advanced 6 RIC LI | Technical Data

| Type  | P-Receiver                       |                 | HP-Receiver                      |                 |
|---|----------------------------------|-----------------|----------------------------------|-----------------|
|   | 2 ccm coupler                    | Ear simulator   | 2 ccm coupler                    | Ear simulator   |
| <b>Output sound pressure level</b>                      |                                  |                 |                                  |                 |
| OSPL 90 at 1.6 kHz                                      | –                                | 129 dB SPL      | –                                | 136 dB SPL      |
| OSPL 90 (Peak)  | 122 dB SPL                       | 131 dB SPL      | 131 dB SPL                       | 138 dB SPL      |
| HFA-OSPL 90   | 120 dB SPL                       | –               | 124 dB SPL                       | –               |
| <b>Gain</b>   |                                  |                 |                                  |                 |
| FOG at 1.6 kHz  | –                                | 69 dB           | –                                | 82 dB           |
| FOG (peak)  | 65 dB                            | 75 dB           | 75 dB                            | 83 dB           |
| HFA-FOG   | 61 dB                            | –               | 69 dB                            | –               |
| Reference test gain                                     | 43 dB                            | 54 dB           | 47 dB                            | 61 dB           |
| <b>Frequency, noise and directivity</b>                 |                                  |                 |                                  |                 |
| Frequency range Premium                                 | 100 – 7400 Hz                    | 100 – 8000 Hz   | 100 – 7700 Hz                    | 200 – 7500 Hz   |
| Advanced  | 100 – 7400 Hz                    | 100 – 8000 Hz   | 100 – 7700 Hz                    | 200 – 7500 Hz   |
| Equivalent input noise                                  | 14 dB SPL                        | 16 dB SPL       | 15 dB SPL                        | 8 dB SPL        |
| Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz | 1 / 2 / 1 / 1 %                  | 2 / 3 / 3 / – % | 1 / 2 / 1 / 1 %                  | 2 / 3 / 2 / – % |
| Tinnitus Function broadband                             | 75 dB SPL                        | –               | 85 dB SPL                        | –               |
| AI-DI   | 4.0 dB                           |                 | 4.0 dB                           |                 |
| <b>Inductive coil sensitivity</b>                       |                                  |                 |                                  |                 |
| MASL (1 mA/m) at 1.6 kHz                                | –                                | –               | –                                | –               |
| HFA MASL (1 mA/m)                                       | –                                | –               | –                                | –               |
| HFA SPLITS (left/right)                                 | –                                | –               | –                                | –               |
| RSETS (left/right)                                      | –                                | –               | –                                | –               |
| HFA SPLIV   | –                                | –               | –                                | –               |
| <b>Battery</b>  |                                  |                 |                                  |                 |
| Battery runtime (without streaming)                     | up to 28 h                       |                 | up to 28 h                       |                 |
| Battery runtime (incl. 5 h streaming)                   | up to 24 h                       |                 | up to 24 h                       |                 |
| <b>Cellphone Compatibility</b>                          |                                  |                 |                                  |                 |
| Microphone mode   | 0.65 – 0.96 GHz<br>1.4 – 2.7 GHz |                 | 0.65 – 0.96 GHz<br>1.4 – 2.7 GHz |                 |
| Telecoil mode   | –                                |                 | –                                |                 |

Please find additional information to the values on page “Further information”.

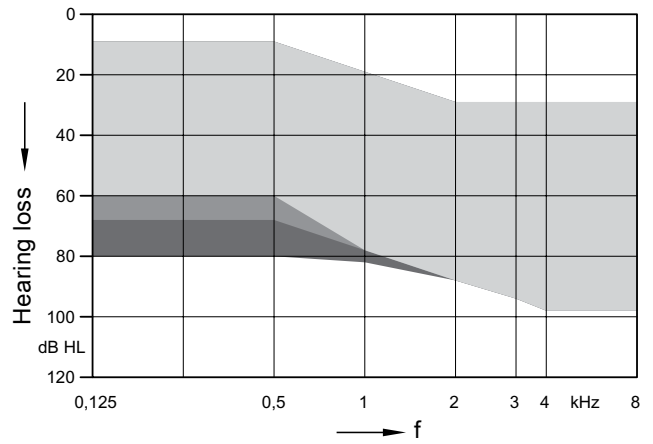
# TH Premium/Advanced 6 RIC LI | Fitting Range

## S-Receiver



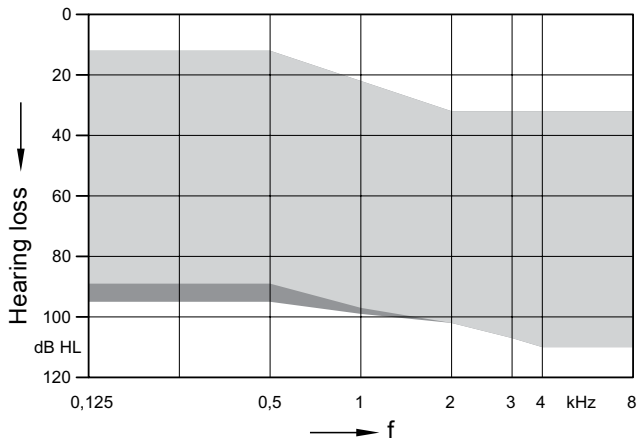
Eartip 3.0 Open  
 +  Sleeve 3.0 Power  
 +  +  Earmold 3.0

## M-Receiver



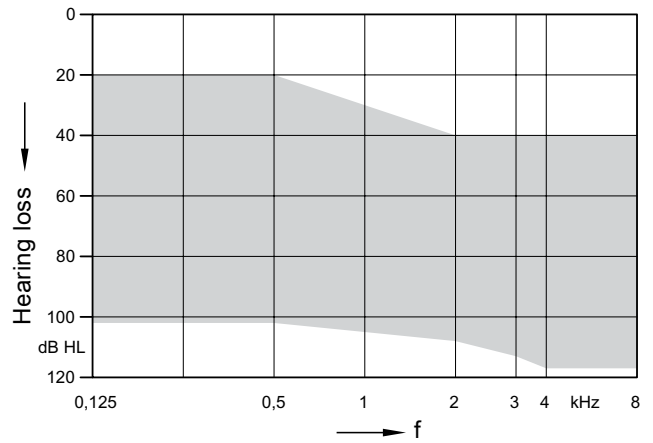
Eartip 3.0 Open  
 +  Sleeve 3.0 Power  
 +  +  Earmold 3.0

## P-Receiver



Sleeve 3.0 Power  
 +  Earmold 3.0

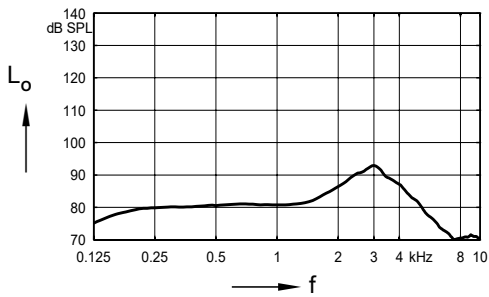
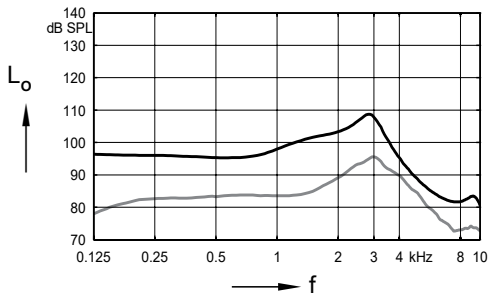
## HP-Receiver



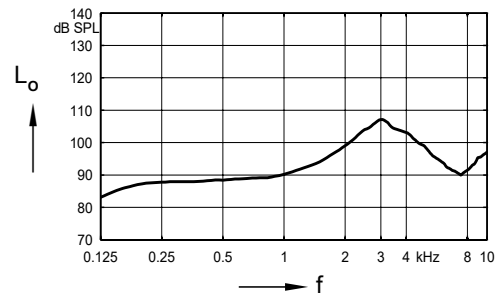
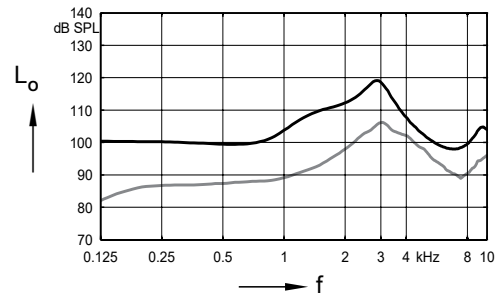
Custom Shell (no vent)

# S-Receiver (Sleeve 3.0 Power) | Basic Data

## 2 ccm coupler

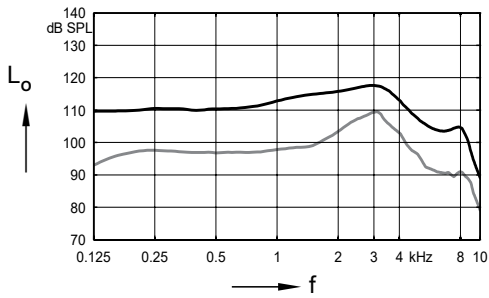


## Ear simulator



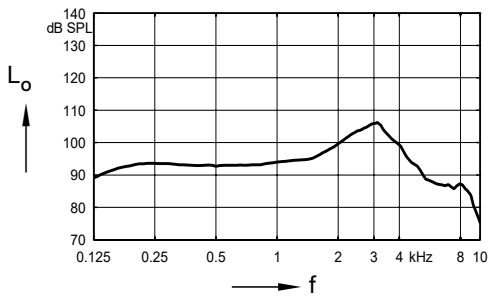
# M-Receiver (Sleeve 3.0 Power) | Basic Data

## 2 ccm coupler



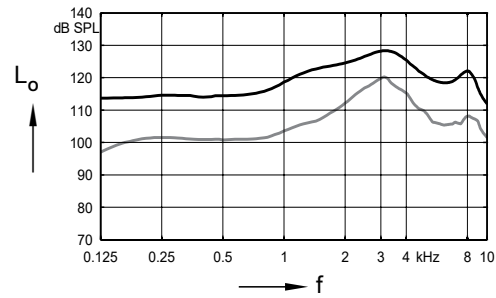
**Max. Output sound pressure level**  
(L<sub>1</sub> = 90 dB)

**Full on gain**  
(L<sub>1</sub> = 50 dB)



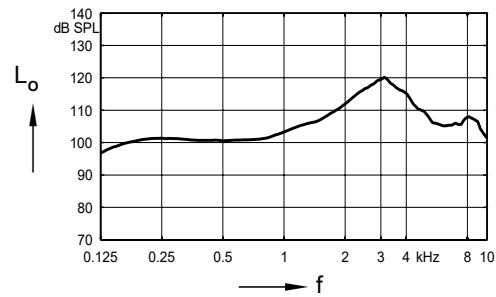
**Frequency response**  
(L<sub>1</sub> = 60 dB)

## Ear simulator



**Max. Output sound pressure level**  
(L<sub>1</sub> = 90 dB)

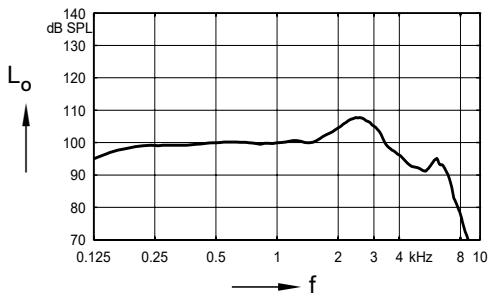
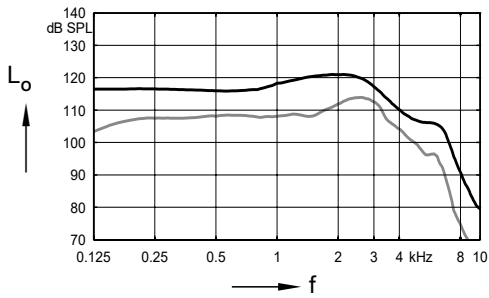
**Full on gain**  
(L<sub>1</sub> = 50 dB)



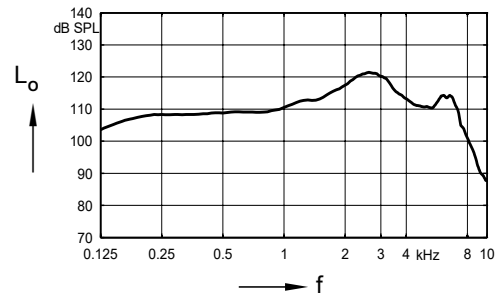
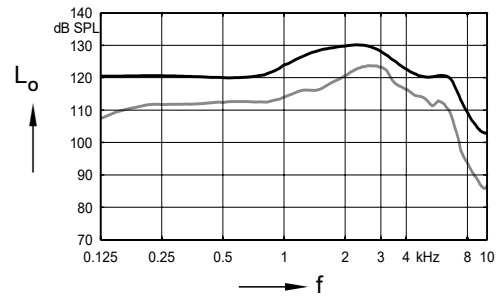
**Basic acoustic response**  
(L<sub>1</sub> = 60 dB)

# P-Receiver (Earmold 3.0) | Basic Data

## 2 ccm coupler

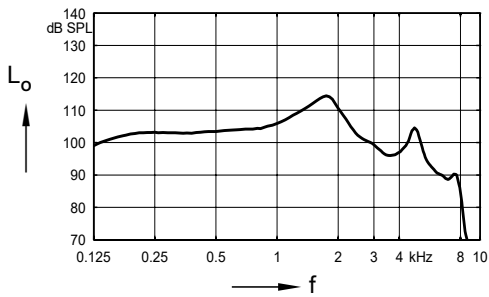
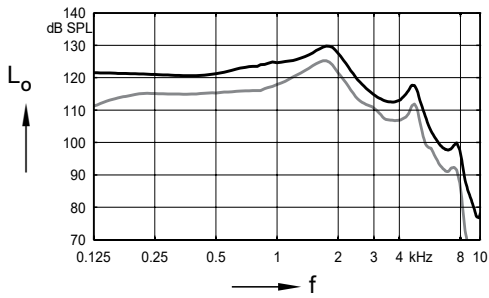


## Ear simulator

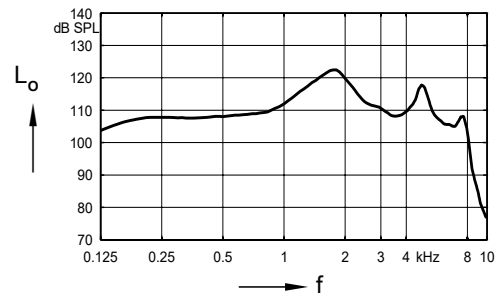
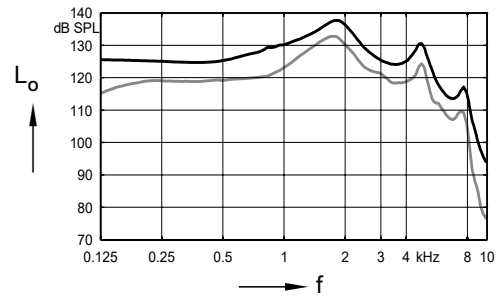


# HP-Receiver (Custom Shell) | Basic Data

## 2 ccm coupler



## Ear simulator





# TH Premium/Advanced 6 RIC LI | Features and Accessories

|   | Premium | Advanced |
|---|---------|----------|
| <b>Dynamic Soundscape Processing 2.0</b>          | ■■■■■   | ■■■■■    |
| Augmented Focus                                   | ✓       | ✓        |
| Acoustic Sensor                                   | ✓       | ✓        |
| Motion Sensor                                     | ✓       | ✓        |
| <b>OVP (Own Voice Processing) <sup>1)</sup></b>   | ✓       | ✓        |
| <b>Sound Clarity</b>                              | ■■■■■   | ■■■■■    |
| Signal processing (channels) / Gain&MPO (handles) | 48 / 20 | 32 / 16  |
| Hearing programs                                  | 6       | 6        |
| Extended dynamic range                            | ✓       | ✓        |
| Speech and noise management                       | ✓       | ✓        |
| SoundSmoothing                                    | ✓       | ✓        |
| Feedback cancellation                             | ✓       | ✓        |
| HD Music (presets)                                | 3       | 3        |
| eWindScreen                                       | ✓       | ✓        |
| Extended bandwidth                                | ✓       | —        |
| EchoShield  | ✓       | ✓        |
| <b>Speech Quality</b>                             | ■■■■■   | ■■■■■    |
| Binaural Directionality                           | ✓       | ✓        |
| Wireless CROS/BICROS                              | ✓       | ✓        |
| Frequency compression                             | ✓       | ✓        |
| Spatial SpeechFocus <sup>1) 2)</sup>              | ✓       | ✓        |
| <b>Wearer Interaction</b>                         | ■■■■■   | ■■■■■    |
| TruHearing App (iOS and Android)                  | ✓       | ✓        |
| Adaptive Streaming Volume <sup>3)</sup>           | ✓       | ✓        |
| Spatial Configurator                              | ✓       | ✓        |
| <b>Direct Streaming</b>                           | ✓       | ✓        |
| Android devices (ASHA)                            | ✓       | ✓        |
| Made for iPhone   iPad   iPod                     | ✓       | ✓        |
| <b>Tinnitus</b>                                   | ✓       | ✓        |
| Notched Amplification Therapy                     | ✓       | ✓        |
| Tinnitus noise therapy signal                     | ✓       | ✓        |
| <b>Fitting</b>                                    | ✓       | ✓        |
| Smart Optimizer and Data Logging                  | ✓       | ✓        |
| Acclimatization manager                           | ✓       | ✓        |
| InSituGram  | ✓       | ✓        |
| AutoFit   | ✓       | ✓        |
| <b>TeleCare</b>                                   | ✓       | ✓        |
| Remote Services                                   | ✓       | ✓        |
| TruHearing App                                    | ✓       | ✓        |

<sup>1)</sup> req. bilateral fitting

<sup>2)</sup> for Advanced, right/left directionality available only in Stroll Program and via the Spatial Configurator

<sup>3)</sup> streaming only

■■■■■ highest feature performance  
 ✓ available — not available ○ optional

# TH Premium/Advanced 6 RIC LI | Features and Accessories

|  | Premium / Advanced |
|--|--------------------|
| <b>Style specific features</b>             |                    |
| Ingress Protection Rating                  | IP68               |
| Charging contacts                          | ✓                  |
| Battery size                               | —                  |
| Battery door on/off function               | —                  |
| Nanocoated housing                         | ✓                  |
| e2e wireless 4.0                           | ✓                  |
| User controls coupling via e2e             | ✓                  |
| Wireless programming                       | ✓                  |
| <b>Instrument configurations</b>           |                    |
| Flat cover                                 | —                  |
| Rotary volume control                      | —                  |
| Push button                                | —                  |
| Rocker switch                              | ✓                  |
| Color conversion kit                       | ○                  |
| Color conversion kit with T-Coil           | —                  |
| T-Coil                                     | —                  |
| Battery door – child lock                  | —                  |
| Small earhook                              | —                  |
| <b>Programming accessories</b>             |                    |
| ConnexxAir / ConnexxLink                   | — / —              |
| Noahlink Wireless                          | Mandatory          |
| Programming adapter / cable                | —                  |
| <b>Accessories</b>                         |                    |
| miniPocket                                 | ○                  |
| StreamLine TV                              | ○                  |
| StreamLine Mic                             | ○                  |
| Charging Station R /<br>Travel Charger RIC | Mandatory          |
| TH CROS 6 RIC LI                           | ○                  |

✓ available    — not available    ○ optional

# TH Premium/Advanced 6 RIC LI | Further information

## Abbreviations

The following abbreviations are used in this datasheet:

|        |  |
|--------|--|
| SPL    | Sound Pressure Level                             |
| OSPL   | Output Sound Pressure Level                      |
| HFA    | High Frequency Average                           |
| FOG    | Full-On Gain                                     |
| MASL   | Magneto Acoustical Sensitivity Level             |
| SPLITS | Coupler SPL for an Inductive Telephone Simulator |
| RSETS  | Relative Equivalent Telephone Sensitivity        |
| SPLIV  | SPL In a Vertical magnetic field                 |
| AI-DI  | Articulation Index - Directivity Index           |
| IRIL   | Input Related Interference Level                 |
| RTF    | Reference Test Frequency                         |
| ASHA   | Audio streaming for hearing aids                 |

## Standards and additional information

- ▶ All measurements with the 2 ccm coupler were performed according to ANSI S3.22-2014 and IEC 60118-0:2015 if applicable.
- ▶ All measurements with an ear simulator were performed according to IEC 118-0/A1:1994 and to DIN 45605 (frequency range) if applicable.
- ▶ All Cellphone Compatibility measurements were performed according to IEC 60118-13:2019, EN IEC 60118-13:2020 and ANSI C63.19-2019.
- ▶ Cellphone Compatibility definition: It is expected that the hearing aid user can effectively use a compliant wireless device held in a talking position at the ear. Maximum achievable Cellphone Compatibility range: 0.65 – 0.96 GHz and 1.4 – 2.7 GHz.
- ▶ Curves and figures representing FOG are measured with 20 dB reduction and 70 dB SPL input level.
- ▶ Figures representing Equivalent Input Noise incorporate a moderate expansion.
- ▶ Tinnitus noiser measurement conditions: all tinnitus single frequency sliders in max position, master volume slider in default position (0 dB) and local volume control in default position.
- ▶ Inductive coil sensitivity values, inductive response curves and T ratings apply for instruments with telecoil only.
- ▶ The current consumption is measured in reference test setting (RTS) according to the applicable standards. Due to the settling behaviour of hearing aids supporting RF (radio frequency), the battery current is measured 3 minutes after turning on (note: no pairing).
- ▶ The battery runtime is based on first fit settings using 60 % of the fitting range and an ISTS (International Speech Test Signal) input signal at 65 dB SPL (note: pairing established). The actual battery runtime is determined by battery quality, hearing loss, sound environment, usage and activated feature set. Regarding RF usage (Bluetooth streaming) two different conditions are considered.
- ▶ Extended bandwidth up to 12 kHz for Premium devices only.
- ▶ The following acoustic connections/ear pieces were used:
  - S-Receiver Unit and M-Receiver Unit: Sleeve 3.0 Power
  - P-Receiver Unit: Earmold 3.0
  - HP-Receiver Unit: Custom Shell

## Special note for instruments with built-in lithium-ion rechargeable battery

- ▶ The runtime of all lithium-ion rechargeable batteries reduces over time. The estimates are based on fresh lithium-ion rechargeable battery capacity. Under normal operating conditions, the battery will retain up to 80 % of its initial capacity after 2 years of use. Please note that battery performance will vary depending on individual usage patterns and environmental conditions.



“Made for iPhone”, “Made for iPad”, and “Made for iPod” mean that an electronic accessory has been designed to connect specifically to iPhone, iPad, or iPod, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPhone, iPad, or iPod may affect wireless performance.

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases and are subject to change without prior notice. The required features should therefore be specified in each individual case at the time of conclusion of the respective contract.

**Manufactured for**

TruHearing Inc.  
12936 S. Frontrunner Blvd  
Draper, UT 84020  
United States

Order No. 04797-99T01-7600  
© 08.2021, TruHearing Inc.  
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Subject to change  
without prior notice



**WARNING**

Choking hazard posed by small parts.

- ▶ This instrument is not intended for the fitting of infants, children under 3 years or persons of mental incapacity.



**WARNING**

Instrument has an output sound pressure level of 132 dB SPL or more. Risk of impairing the residual hearing of the user.

- ▶ Take special care when fitting this instrument.