## KS 8.0 · Technical Data

<table>
<thead>
<tr>
<th>Type</th>
<th>S-Receiver</th>
<th>M-Receiver</th>
</tr>
</thead>
</table>

### Output sound pressure level

<table>
<thead>
<tr>
<th></th>
<th>2 ccm coupler</th>
<th>Ear simulator</th>
<th>2 ccm coupler</th>
<th>Ear simulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>at 1.6 kHz</td>
<td>-</td>
<td>109 dB SPL</td>
<td>-</td>
<td>123 dB SPL</td>
</tr>
<tr>
<td>Peak</td>
<td>108 dB SPL</td>
<td>119 dB SPL</td>
<td>119 dB SPL</td>
<td>129 dB SPL</td>
</tr>
<tr>
<td>HFA-OSPL 90</td>
<td>101 dB SPL</td>
<td>-</td>
<td>113 dB SPL</td>
<td>-</td>
</tr>
</tbody>
</table>

### Gain

<table>
<thead>
<tr>
<th></th>
<th>S-Receiver</th>
<th>M-Receiver</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full on gain (FOG) at 1.6 kHz</td>
<td>45 dB</td>
<td>45 dB</td>
</tr>
<tr>
<td>Full on gain (peak)</td>
<td>37 dB</td>
<td>37 dB</td>
</tr>
<tr>
<td>HFA-FOG</td>
<td>24 dB</td>
<td>24 dB</td>
</tr>
</tbody>
</table>

### Frequency, noise and directivity

<table>
<thead>
<tr>
<th></th>
<th>S-Receiver</th>
<th>M-Receiver</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency range</td>
<td>100 - 10000 Hz</td>
<td>100 - 10000 Hz</td>
</tr>
<tr>
<td>Equivalent input noise</td>
<td>19 dB SPL</td>
<td>20 dB SPL</td>
</tr>
<tr>
<td>Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz</td>
<td>1 / 1 / 1 / 1 %</td>
<td>1 / 1 / 2 / - %</td>
</tr>
<tr>
<td>AI-DI</td>
<td>4.0 dB</td>
<td>4.0 dB</td>
</tr>
</tbody>
</table>

### Inductive coil sensitivity

<table>
<thead>
<tr>
<th></th>
<th>S-Receiver</th>
<th>M-Receiver</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASL (1 mA/m) at 1.6 kHz</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>HFA MASL (1 mA/m)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>HFA SPLIT (left/right)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>RSETS (left/right)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>HFA SPLIT IV</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>

### Battery

<table>
<thead>
<tr>
<th></th>
<th>S-Receiver</th>
<th>M-Receiver</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery voltage</td>
<td>1.3 V</td>
<td>1.3 V</td>
</tr>
<tr>
<td>Battery current drain</td>
<td>1.2 mA</td>
<td>1.2 mA</td>
</tr>
<tr>
<td>Battery life (cell zinc air)</td>
<td>~70 h</td>
<td>~67 h</td>
</tr>
<tr>
<td>Battery life (rechargeable)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### IRIL IEC 60118-13-2016 Ed. 4.0

<table>
<thead>
<tr>
<th></th>
<th>S-Receiver</th>
<th>M-Receiver</th>
</tr>
</thead>
<tbody>
<tr>
<td>700-960 MHz (rating)</td>
<td>user</td>
<td>user</td>
</tr>
<tr>
<td>1400-2000 MHz (rating)</td>
<td>user</td>
<td>user</td>
</tr>
<tr>
<td>2000-2700 MHz (rating)</td>
<td>user</td>
<td>user</td>
</tr>
<tr>
<td>ANSI C63.19-2011</td>
<td>M4</td>
<td>M4</td>
</tr>
<tr>
<td>800-950 MHz (rating)</td>
<td>M4</td>
<td>M4</td>
</tr>
<tr>
<td>1600-2500 MHz (rating)</td>
<td>M4</td>
<td>M4</td>
</tr>
</tbody>
</table>
## KS 8.0 · Technical Data

<table>
<thead>
<tr>
<th></th>
<th>Type</th>
<th>P-Receiver</th>
<th>HP-Receiver</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Output sound pressure level</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>at 1.6 kHz</td>
<td>-</td>
<td>128 dB SPL</td>
<td>137 dB SPL</td>
</tr>
<tr>
<td>Peak</td>
<td>124 dB SPL</td>
<td>134 dB SPL</td>
<td>130 dB SPL</td>
</tr>
<tr>
<td>HFA-OSPL 90</td>
<td>119 dB SPL</td>
<td></td>
<td>123 dB SPL</td>
</tr>
<tr>
<td><strong>Gain</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full on gain (FOG) at 1.6 kHz</td>
<td>-</td>
<td>70 dB</td>
<td>82 dB</td>
</tr>
<tr>
<td>Full on gain (peak)</td>
<td>70 dB</td>
<td>80 dB</td>
<td>75 dB</td>
</tr>
<tr>
<td>HFA-FOG</td>
<td>63 dB</td>
<td></td>
<td>82 dB</td>
</tr>
<tr>
<td>Reference test gain</td>
<td>42 dB</td>
<td>53 dB</td>
<td>46 dB</td>
</tr>
<tr>
<td><strong>Frequency, noise and directivity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency range</td>
<td>100 - 7500 Hz</td>
<td>100 - 8100 Hz</td>
<td>100 - 7300 Hz</td>
</tr>
<tr>
<td>Equivalent input noise</td>
<td>18 dB SPL</td>
<td>21 dB SPL</td>
<td>16 dB SPL</td>
</tr>
<tr>
<td>Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz</td>
<td>1 / 2 / 1 / 1 %</td>
<td>3 / 4 / 2 / - %</td>
<td>1 / 2 / 1 / 1 %</td>
</tr>
<tr>
<td>AI-DI</td>
<td>4.0 dB</td>
<td>4.0 dB</td>
<td></td>
</tr>
<tr>
<td><strong>Inductive coil sensitivity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MASN (1 mA/m) at 1.6 kHz</td>
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<td>-</td>
</tr>
<tr>
<td>HFA MASN (1 mA/m)</td>
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<td>-</td>
</tr>
<tr>
<td>HFA SPLITs (left/right)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>RSETs (left/right)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>HFA SPLITiv</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery voltage</td>
<td>1.3 V</td>
<td>1.3 V</td>
<td>1.3 V</td>
</tr>
<tr>
<td>Battery current drain</td>
<td>1.3 mA</td>
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<td>1.3 mA</td>
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<td>Battery life (cell zinc air)</td>
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<td>~67 h</td>
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<tr>
<td>Battery life (rechargeable)</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>IRIL IEC 60118-13:2016 Ed. 4.0</strong></td>
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<td></td>
</tr>
<tr>
<td>700-960 MHz (rating)</td>
<td></td>
<td>user</td>
<td>user</td>
</tr>
<tr>
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<td>user</td>
<td>user</td>
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<td>ANSI C63.19-2011</td>
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<td>800-950 MHz (rating)</td>
<td></td>
<td>M4</td>
<td>M4</td>
</tr>
<tr>
<td>1600-2500 MHz (rating)</td>
<td></td>
<td>M4</td>
<td>M4</td>
</tr>
</tbody>
</table>
Fitting Range

**S-Receiver**

- Open Click Domes
- Closed Click Domes
- Click Mold (no vent)

**M-Receiver**

- Open Click Domes
- Closed Click Domes
- Click Mold (no vent)

**P-Receiver**

- Double Click Domes
- Click Mold (no vent)

**HP-Receiver**

- Custom Shell (no vent)
S-Receiver (Closed Click Dome) · Basic Data

2 ccm coupler

Output sound pressure level (L1 = 90 dB)

Full on gain (L1 = 50 dB)

Frequency response (L1 = 60 dB)

Ear simulator

Output sound pressure level (L1 = 90 dB)

Full on gain (L1 = 50 dB)

Basic acoustic response (L1 = 60 dB)
M-Receiver (Closed Click Dome) - Basic Data

### 2 ccm coupler

#### Output sound pressure level

- $L_i = 90$ dB

#### Full on gain

- $L_i = 50$ dB

#### Frequency response

- $L_i = 60$ dB

### Ear simulator

#### Output sound pressure level

- $L_i = 90$ dB

#### Full on gain

- $L_i = 50$ dB

#### Basic acoustic response

- $L_i = 60$ dB
P-Receiver (Closed mold) · Basic Data

2 ccm coupler

Output sound pressure level
\( L_I = 90 \) dB

Full on gain
\( L_I = 50 \) dB

Frequency response
\( L_I = 60 \) dB

Ear simulator

Output sound pressure level
\( L_I = 90 \) dB

Full on gain
\( L_I = 50 \) dB

Basic acoustic response
\( L_I = 60 \) dB
2 ccm coupler

Output sound pressure level
\(L_i = 90\, \text{dB}\)

Full on gain
\(L_i = 50\, \text{dB}\)

Ear simulator

Output sound pressure level
\(L_i = 90\, \text{dB}\)

Full on gain
\(L_i = 50\, \text{dB}\)

Frequency response
\(L_i = 60\, \text{dB}\)

Basic acoustic response
\(L_i = 60\, \text{dB}\)
## KS 8.0 | Features and Accessories

### MyCore Platform
- **Signal processing (channels) / Gain/MPO (handles)**: 48 / 20
- **Hearing programs**: 6
- **Direct Audio Streaming**: [1] / Made for iPhone
- **My Voice**: [2]  
- **Wireless Sync**: [2]  
- **Volume and control coupling**: [2]  

### MyCore Speech
- **HD Bandwidth (up to 10 kHz)**
- **iFocus 360**: [2] automatic
- **Focus 360**
- **HD Directionality**
- **Stereo iLock**: [2]  
- **Directional iLock**: [2]  
- **Voice Ranger**
- **XPhone**: [2]  
- **Multichannel Adaptive Directional Microphone**
- **Automatic Directional Microphone**
- **Fixed Directional Microphone**
- **Bandwidth Compression**
- **Intelligent Feedback Preventer**

### MyCore Sound Quality and Comfort
- **Dynamic Extender**
- **Auto Volume**: [3]  
- **Microphone-pattern adjustment**: [2] [4]  
- **Reverb Reducer**
- **Music Enhancer**
- **iOmni**
- **Sound Smoothing (settings)**: 3
- **Intelligent Wind Noise Cancellation**: [2]  
- **Wind Noise Cancellation**
- **Noise Management**

### MyCore Automatic Optimization
- **Smart Automatic Equalizer**
- **Smart Automatic Acclimatization**
- **Automatic Classifier**
- **Data logging**

---

[1] Apple iPhones 5 and later
[2] Bilateral fitting required
[3] Streaming only
[4] requires Connexx Smart Direct App

---

Performance levels: Premium High Standard
## KS 8.0 | Features and Accessories

<table>
<thead>
<tr>
<th>Style specific features</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SecureTec protection</td>
<td>IP68</td>
</tr>
<tr>
<td>Charging contacts</td>
<td>–</td>
</tr>
<tr>
<td>Battery Size</td>
<td>312</td>
</tr>
<tr>
<td>Battery door on/off function</td>
<td>●</td>
</tr>
<tr>
<td>Nanocoated housing</td>
<td>●</td>
</tr>
<tr>
<td>Wireless programming</td>
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<table>
<thead>
<tr>
<th>Instrument configurations</th>
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<tbody>
<tr>
<td>Flat cover</td>
<td>–</td>
</tr>
<tr>
<td>Rotary volume control</td>
<td>–</td>
</tr>
<tr>
<td>Push button</td>
<td>–</td>
</tr>
<tr>
<td>Rocker switch</td>
<td>●</td>
</tr>
<tr>
<td>Color conversion kit</td>
<td>○</td>
</tr>
<tr>
<td>Battery door - integrated telecoil</td>
<td>–</td>
</tr>
<tr>
<td>Battery door - child lock</td>
<td>–</td>
</tr>
<tr>
<td>Small earhook</td>
<td>–</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Programming accessories</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ConnexxAir, ConnexxLink</td>
<td>–</td>
</tr>
<tr>
<td>Noahlink Wireless</td>
<td>●</td>
</tr>
<tr>
<td>Programming adapter / cable</td>
<td>size 312</td>
</tr>
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<table>
<thead>
<tr>
<th>Accessories</th>
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<tbody>
<tr>
<td>Connexx Smart Key</td>
<td>○</td>
</tr>
<tr>
<td>Connexx Smart Transmitter 2,4</td>
<td>○</td>
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<table>
<thead>
<tr>
<th>Apps</th>
<th></th>
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<tbody>
<tr>
<td>Connexx Smart Direct App</td>
<td>○</td>
</tr>
<tr>
<td>Connexx Smart Remote App</td>
<td>○</td>
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</tbody>
</table>

○ available  ○ optional  – not available
KS 8.0

Abbreviations and Standards

Abbreviations

The following abbreviations are used in this datasheet:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSPL</td>
<td>Output Sound Pressure Level</td>
</tr>
<tr>
<td>HFA</td>
<td>High Frequency Average</td>
</tr>
<tr>
<td>FOG</td>
<td>Full-On Gain</td>
</tr>
<tr>
<td>MASL</td>
<td>Magneto Acoustical Sensitivity Level</td>
</tr>
<tr>
<td>SPLITS</td>
<td>Coupler SPL for an Inductive Telephone Simulator</td>
</tr>
<tr>
<td>RSETS</td>
<td>Relative Equivalent Telephone Sensitivity</td>
</tr>
<tr>
<td>AI-DI</td>
<td>Articulation Index - Directivity Index</td>
</tr>
<tr>
<td>IRIL</td>
<td>Input Related Interference Level</td>
</tr>
<tr>
<td>RTF</td>
<td>Reference Test Frequency</td>
</tr>
</tbody>
</table>

Standards

- 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.
- 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.
- Inductive coil sensitivity values, inductive response curves and T ratings apply for instruments with telecoil battery door only.
- The current consumption is measured in reference test setting [RTS] according to the applicable standards. Due to the settling behaviour of hearing instruments supporting RF (radio frequency), the battery current is measured 3 minutes after turning on [note: no pairing].
- The battery life 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 life is determined by battery quality, hearing loss, sound environment, usage and activated feature set.
- The following acoustic connections / ear pieces were used:
  - S-Receiver Unit and M-Receiver Unit: Closed Click Dome
  - P-Receiver Unit: Click Mold
  - HP-Receiver Unit: Custom Shell

“Made for iPhone” means that an electronic accessory has been designed to connect specifically to iPhone 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 may affect wireless performance.

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.