

Aspect Xtra™ Digital Signal Processor



Adaptive digital signal processing algorithms designed to greatly enhance performance and fitting flexibility.



Feature Summary:

Exclusive, Lightweight On-The-Ear Design contours the top of the ear between the head and the pinna to provide maximum comfort.

Unique Earbud Design In Four Sizes provides an open-ear fitting with excellent retention, increased comfort and reduced feedback.

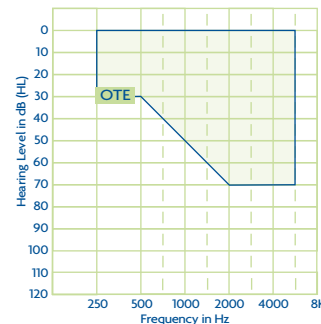
MultiChannel Programmability as WDRC or Output Compression Limiting with multiple parameters to optimize fine-tuning of the response.

MultiChannel Expansion technology reduces circuit and low-level environmental noise typically associated with WDRC hearing aids.

Adaptive Noise Management reduces gain of steady-state noise only in channels where noise is detected.

Adaptive Feedback Cancellation eliminates feedback without degrading incoming speech signals or compromising gain. More gain is provided prior to the onset of feedback.

Real Ear Insertion Response View within PFS incorporates Real Ear Coupler Differences and direct path data. This accurate adjustment display simplifies fittings.



Five Tubing Lengths to meet the needs of a variety of patients. Medium through Extra Long, also available in deep lengths.

Programmable Indicator Tone for low battery.

Available in black and translucent gray colors.

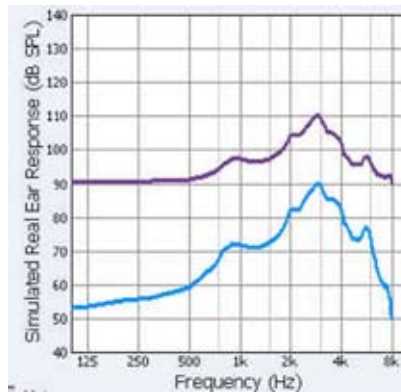
Size IOA Battery.

Custom Exact Fit Earmold optional.



Aspect Xtra Digital OTE

| | | |
|---|---------------|------------|
| Peak OSPL 90 (dB SPL) | ANSI 105 | IEC 113 |
| HFA OSPL 90 (dB SPL) | 95 | NA |
| RTF OSPL 90 (dB SPL) | NA | 98 |
| Peak Gain (dB) | 35 | 42 |
| HFA Full On Gain (dB) | 26 | NA |
| RTF Full On Gain (dB) | NA | 27 |
| Frequency Range (kHz) | 0.2-5.8 | NA |
| Reference Test Frequency (kHz) | 1.0, 1.6, 2.5 | 1.6 |
| Reference Test Gain (dB) | 25 | 28 |
| Harmonic Distortion | | |
| 500 Hz | 0.2% | 0.6% |
| 800 Hz | 0.1% | 0.1% |
| 1600Hz | 0.2% | 0.2% |
| Equivalent Input Noise (dB SPL) | 27 | 33 |
| (55 – 90 ANSI) (55 – 80 IEC) – Test Mode | | |
| Attack Time (ms) | 5 | 5 |
| Release Time 0.1-s (ms) | 160 | 160 |
| Release Time 2.0-s (ms) | 160 | 160 |
| Induction Coil Sensitivity | | |
| HFA SPLITS (ANSI-96) (dB SPL) | NA | |
| MASL (IEC 118-1) (dB SPL) | | NA |
| Battery Current (mA) | | |
| Idle (mA) | 0.78 | 0.78 |
| Estimated Battery Life for 16 hour day (days) | 7 | 7 |



SIMULATED REAL EAR RESPONSE for a 50 dB and 90 dB input for the Aspect Xtra 105/35 with the standard earbud and tubing set to Full On Gain.



Measurement Conditions and Recommendations

The data for Aspect Xtra OTE are obtained and performance is expressed according to ANSI S3.22 (1996) and IEC 60118-0 (1983), 60118-1 (1999), and 60118-2 (1997). Electro-acoustic data are measured on a Starkey proprietary Real Time Analyzer. Where applicable, 2D polar plots and DI data are measured on a B&K PULSE 3560C in an anechoic chamber. Data may be subject to change with product refinement.

Aspect Xtra OTE hearing instruments may be set to Test Mode within PFS by reading the hearing aid and choosing Set to Full On Gain (Test Mode) from the Activity drop down menu. Test data results may vary from these specifications due to adaptive signal processing effects and available measurement equipment.