hrp technology guide

Welcome to *Hearing Review Products'* continuing series of **Technology Guide** product surveys. With this, our ninth matrix, we're continuing to take a break from hearing aids and in this issue we present an array of assistive listening devices. So instead of products that can restore hearing, we're presenting products that can often work in conjunction with instruments, available from 13 companies across the industry.

As usual, beyond the ALDs presented on these following pages, there are plenty more to be found on our Web site, www.hearingreview.com, where you can download PDFs of this complete survey as well as the previous eight.

Will Campbell

Ssistive Listening Devices

Company Name: Assistive Audio Inc. **Bellman & Symfon** Address: 2627 Algonquin Pkwy 1108, Main Tower, GD Int'l Hotel Toledo, OH 43606 339 Huanshi Dong Rd, Guangzhou, China (419) 473-8906 = (800) 224-9295 510098 +86 20 83182950 www.assistiveaudio.com www.ampetronic.com www.bellman.com Audio Domino 1) What is the name of your Ampetronic ILD1000G Assistive Listening Device (ALD)? 2) What year was this ALD introduced? 2009 2009 Alarms/Alerting Devices ☐ Alarms/Alerting Devices 3) Please select a primary category ■ FM/Loop Systems ■ FM/Loop Systems this ALD belongs in. ☐ TV/Home Listening ■ TV/Home Listening 4) For ALDs in the Alarms/Alerting category, ☐ Vibration ☐ Sonic ☐ Vibration Sonic ☐ Flashing Other ☐ Flashing Other please select the features available. 5) For ALDs in the Telephones & Amplification up to (please specify dB) Amplification up to (please specify dB) Accessories category, please indicate Large backlit screen and keypad Large backlit screen and keypad Phone number storage Phone number storage the features available Speakerphone Speakerphone Outgoing speech amplification Outgoing speech amplification Hands-free operation Hands-free operation Multi-function ring signaler Multi-function ring signaler Strobe ring signaler Strobe ring signale ■ Hearing Aid compatible Hearing Aid compatible Speed dial buttons Cap-Tel Compatible Cap-Tel Compatible ☐ Other ■ Induction Loop 6) Please indicate your ALD's system(s). ■ Induction Loop Infrared Infrared ■ One-To-One Communication One-To-One Communication ■ Other-Large Area Applications 7) Is your ALD T-coil compatible? Yes Yes 8) FM/Loop and TV/Home Listening Systems: Nominal area of coverage > 4500 sq ft 82 ft The effective range of your ALD? 9) FM/Loop and TV/Home Listening Designed, configured to meet IEC60118-4 71 dB Systems: Maximum amplification? 10) For FM Systems with secure transmissions, Not Applicable Security coding done by encryption, coding, or both? 11) For FM System ALDs, how many Not Applicable channels are available? Not Applicable 2.4 GHz 12) For FM or Infrared System ALDs, how many frequency bands are accessible? US: 120v 60 Hz; UK: 230v 50 Hz Rechargeable built-in battery 13) What is the power source for your ALD? 14) If battery powered, estimate of operating Not Applicable 8 Hours time between changes/recharges? 15) Does your ALD have Direct Audio Not Applicable Yes Input (DAI) capability? 16) Indicate which of the following One-on-one conversations ■ One-on-one conversations Multi-person meetings ■ Multi-person meetings environments your ALD is effective in. ■ Lectures Lectures ■ Shopping Shopping ■ In The Car At the Theater At the Theater ■ Restaurants Restaurants ■ Watching Television ■ Watching Television 17) Please list the accessories that Signs, power cord, loop cable, microphone Stereo earphones, travel case, universal charger, charging cable (USB), microphone are included with your ALD. with clip 18) Does your ALD come with a warranty? 5 Years 2 Years If so, how long? 19) What differentiates this ALD from Commercial grade, UL approved, automatic High-definition audio; wireless secure gain control, metal loss correction, quality, encryption others in its class? and reliability.

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Company Name: **ClearSounds Communications Comfort Audio Inc COMTEK Inc** Address: 8160 S Madison St 350 South Northwest Hwy Ste 300 357 West 2700 South. Burr Ridge, IL 60527 Park Ridge, IL 60068 Salt Lake City, UT 84115 (800) 965-9043 (847) 656-5450 (801) 466-3463 = (800) 496-3463 www.clearsounds.com www.comfortaudio.us www.comtek.com AT-216 Option 2p CLA7V2 Amplified Power 1) What is the name of your Comfort Contego **Neckloop Accessory** EnviroMic Assistive Listening Device (ALD)? 2) What year was this ALD introduced? 2007 2003 2008 Alarms/Alerting Devices Alarms/Alerting Devices ☐ Alarms/Alerting Devices 3) Please select a primary category ■ FM/Loop Systems ■ FM/Loop Systems this ALD belongs in. ■ Telephones ☐ TV/Home Listening ■ TV/Home Listening ■ TV/Home Listening 4) For ALDs in the Alarms/Alerting category, ☐ Vibration ☐ Sonic ☐ Sonic ■ Vibration ☐ Sonic Vibration Flashing Other ☐ Flashing Other ☐ Flashing Other please select the features available. ■ Amplification (up to 30 dB) 5) For ALDs in the Telephones & Amplification up to (please specify dB) Amplification up to (please specify dB) Accessories category, please indicate Large backlit screen and keypad Large backlit screen and keypad Large backlit screen and keypad Phone number storage Phone number storage Phone number storage the features available. Speakerphone Speakerphone Speakerphone Outgoing speech amplification Outgoing speech amplification Outgoing speech amplification ■ Hands-free operation Hands-free operation Hands-free operation Multi-function ring signaler Multi-function ring signaler Multi-function ring signaler Strobe ring signale Strobe ring signaler Strobe ring signaler ■ Hearing Aid compatible Hearing Aid compatible Hearing Aid compatible Speed dial buttons Speed dial buttons ap-Tel Compatible Cap-Tel Compatible Cap-Tel Compatible ■ Other-4 Connection Cables ■ Induction Loop 6) Please indicate your ALD's system(s). ■ Induction Loop ■ Induction Loop ■ FM ■ FM FM Infrared Infrared Infrared One-To-One Communication ■ One-To-One Communication One-To-One Communication Other 7) Is your ALD T-coil compatible? Yes Yes Yes 8) FM/Loop and TV/Home Listening Systems: Not Applicable 75-100 feet Up to 300 feet The effective range of your ALD? 9) FM/Loop and TV/Home Listening 30 dB 50 dB 40 dB of gain with a maximum output of 125 dB SPL Systems: Maximum amplification? Not Applicable Both Not Applicable 10) For FM Systems with secure transmissions, done by encryption, coding, or both? 11) For FM System ALDs, how many Not Applicable 38 channels are available? Not Applicable 38 within the frequency band 904-926 MHz 12) For FM or Infrared System ALDs, how 216-217 MHz many frequency bands are accessible? 2 AAA batteries Rechargeable Li-Ion battery 9V Ni-MH or alkaline battery 13) What is the power source for your ALD? 14) If battery powered, estimate of operating 200 Hours 16 Hours Alkaline: 25 hours; Ni-MH: 8-10 hours time between changes/recharges? 15) Does your ALD have Direct Audio No Yes Yes Input (DAI) capability? 16) Indicate which of the following ■ One-on-one conversations One-on-one conversations ■ One-on-one conversations ■ Multi-person meetings Multi-person meetings Multi-person meetings environments your ALD is effective in. Lectures Lectures Lectures ■ Shopping Shopping Shopping ■ In The Car In The Car In The Car At the Theater ■ At the Theater At the Theater ■ Restaurants Restaurants Restaurants Watching Television ■ Watching Television ■ Watching Television 4 connection cables Headphones, earphones, neckloop, Belt clips, neckloop, microphone & clip, battery 17) Please list the accessories that charger, rechargeable batteries, audio input are included with your ALD. power supply/charger, audio cable cord, earphone assembly, antenna conference table microphone adapter, carrying case. 18) Does your ALD come with a warranty? 1 Year 2 Years If so, how long? 19) What differentiates this ALD from Maximum versatility. Cables enable connec-Digital secure transmission between the Offers superior audio fidelity and range tion to cell/cordless phones, MP3 players, transmitter, receiver offers crystal clear plus the unique Smart-Mic and Enviro-Mic others in its class? more. Reduces or eliminates interference sound. Mics in both transmitter, receiver environmental microphone options. between cellular phones, hearing devices. provide uses in many environments.



Company Name: Address:	Etymōtic Research Inc 61 Martin Lane Elk Grove Village, IL 60007 (847) 228-0006 = (888) 389-6684 www.etymotic.com	Hitec Group International Inc 8160 S Madison St Burr Ridge, IL 60051 (877) 784-1691 www.hitec.com	Oaktree Products Inc 716J Crown Industrial Court Chesterfield, MO 63005 (800) 347-1960 = (636) 530-1664 www.oaktreeproducts.com
What is the name of your Assistive Listening Device (ALD)?	Companion Mics	M22 - Professional Office Neckloop System	Hamilton CapTel 800i Captioned Telephone
2) What year was this ALD introduced?	2006	2009	2009
3) Please select a primary category this ALD belongs in.	☐ Alarms/Alerting Devices ■ FM/Loop Systems ☐ Telephones ☐ TV/Home Listening	☐ Alarms/Alerting Devices ☐ FM/Loop Systems ■ Telephones ☐ TV/Home Listening	☐ Alarms/Alerting Devices ☐ FM/Loop Systems ■ Telephones ☐ TV/Home Listening
 For ALDs in the Alarms/Alerting category, please select the features available. 	☐ Vibration ☐ Sonic ☐ Flashing ☐ Other	☐ Vibration ☐ Sonic ☐ Flashing ☐ Other	☐ Vibration ☐ Sonic ☐ Flashing ☐ Other
5) For ALDs in the Telephones & Accessories category, please indicate the features available.	□ Amplification up to (please specify dB) □ Large backlit screen and keypad □ Phone number storage □ Speakerphone □ Outgoing speech amplification □ Hands-free operation □ Multi-function ring signaler □ Strobe ring signaler □ Hearing Aid compatible □ Speed dial buttons □ Cap-Tel Compatible □ Other	■ Amplification (up to 30 dB) □ Large backlit screen and keypad □ Phone number storage □ Speakerphone □ Outgoing speech amplification ■ Hands-free operation □ Multi-function ring signaler □ Strobe ring signaler ■ Hearing Aid compatible □ Speed dial buttons □ Cap-Tel Compatible ■ Other	 Amplification (up to 40 dB) Large backlit screen and keypad Phone number storage Speakerphone Outgoing speech amplification Hands-free operation Multi-function ring signaler Strobe ring signaler Hearing Aid compatible Speed dial buttons Cap-Tel Compatible Other-Customer Service, caption buttons
6) Please indicate your ALD's system(s).	☐ Induction Loop ☐ FM ☐ Infrared ☐ One-To-One Communication ■ Other	■ Induction Loop ☐ FM ☐ Infrared ☐ One-To-One Communication ☐ Other	☐ Induction Loop☐ FM☐ Infrared☐ One-To-One Communication☐ Other
7) Is your ALD T-coil compatible?	Yes	Yes (requires a t-coil to operate)	Yes
8) FM/Loop and TV/Home Listening Systems: The effective range of your ALD?	150 feet	Tethered via cord	Not Applicable
9) FM/Loop and TV/Home Listening Systems: Maximum amplification?	60 dB	30 dB	Not Applicable
For FM Systems with secure transmissions, done by encryption, coding, or both?	Yes. Spread spectrum/frequency-hopping.	Not Applicable	Not Applicable
11) For FM System ALDs, how many channels are available?	Not Applicable	Not Applicable	Not Applicable
12) For FM or Infrared System ALDs, how many frequency bands are accessible?	79	Not Applicable	Not Applicable
13) What is the power source for your ALD?	Rechargeable	AC power supply included (2 AAAs for loop)	Telephone service, high-speed Internet connection
14) If battery powered, estimate of operating time between changes/recharges?	10-13 hours of operation	Approximately 200 hours	Not Applicable
15) Does your ALD have Direct Audio Input (DAI) capability?	Yes	No	No
16) Indicate which of the following environments your ALD is effective in.	 One-on-one conversations Multi-person meetings Lectures Shopping In The Car At the Theater Restaurants Watching Television Other 	☐ One-on-one conversations ☐ Multi-person meetings ☐ Lectures ☐ Shopping ☐ In The Car ☐ At the Theater ☐ Restaurants ☐ Watching Television ■ Other	■ One-on-one conversations
17) Please list the accessories that are included with your ALD.	Noise-isolating, high fidelity in-ear earphones; assorted eartips, AC adapter and charging cable	ClearSounds CLA7V2 Neckloop, Plantronics M22 Headset Base and proprietary interface cable (M22QCC).	Phone, handset, telephone cable, Internet connection cable, AC power supply
18) Does your ALD come with a warranty? If so, how long?	2 Years	1 Year	1 Year
19) What differentiates this ALD from others in its class?	Wireless system enables up to three talkers to speak to one listener. Directional microphones; hearing aid, cochlear implant compatible. Secure, Bluetooth technology.	First system to connect an amplified neck- loop directly to the popular Plantronics M22 Headset Base. Combination works on all corded digital and VoIP phone systems.	Utilizes patient's residual hearing to listen to the caller while reading captions at the same time. CapTel services are free, do not require third-party relay services.

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Company Name: Address:	Oticon Inc 29 Schoolhouse Rd Somerset, NJ 08873 (800) 526-3921 www.oticonusa.com	Phonak LLC 4520 Weaver Pkwy Warrenville, IL 60555 (800) 888-7333 www.phonak-us.com	Serene Innovations Inc 14615 Carmenita Rd Norwalk, CA 90650 (562) 407-5400 www.sereneinnovations.com
1) What is the name of your Assistive Listening Device (ALD)?	Amigo FM System	SmartLink+	CL-60 Amplified Cordless Phone
2) What year was this ALD introduced?	2006	2009	2009
3) Please select a primary category this ALD belongs in.	☐ Alarms/Alerting Devices ■ FM/Loop Systems ☐ Telephones ☐ TV/Home Listening	☐ Alarms/Alerting Devices ■ FM/Loop Systems ☐ Telephones ☐ TV/Home Listening	☐ Alarms/Alerting Devices ☐ FM/Loop Systems ■ Telephones ☐ TV/Home Listening
 For ALDs in the Alarms/Alerting catego please select the features available. 	Image: Result of the properties o	☐ Vibration ☐ Sonic ☐ Flashing ☐ Other	☐ Vibration ☐ Sonic ☐ Flashing ☐ Other
5) For ALDs in the Telephones & Accessories category, please indicate the features available.	Amplification up to (please specify dB) Large backlit screen and keypad Phone number storage Speakerphone Outgoing speech amplification Hands-free operation Multi-function ring signaler Strobe ring signaler Hearing Aid compatible Speed dial buttons Cap-Tel Compatible Other	□ Amplification up to (please specify dB) □ Large backlit screen and keypad □ Phone number storage □ Speakerphone □ Outgoing speech amplification □ Hands-free operation □ Multi-function ring signaler □ Strobe ring signaler □ Hearing Aid compatible □ Speed dial buttons □ Cap-Tel Compatible □ Other	■ Amplification (up to 55 dB) ■ Large backlit screen and keypad ■ Phone number storage ■ Speakerphone ■ Outgoing speech amplification ■ Hands-free operation ■ Multi-function ring signaler ■ Strobe ring signaler ■ Hearing Aid compatible ■ Speed dial buttons □ Cap-Tel Compatible ■ Other-Talking ClD, Talking keypad, Bed shaker output
6) Please indicate your ALD's system(s)	☐ Induction Loop ■ FM ☐ Infrared ☐ One-To-One Communication ☐ Other	☐ Induction Loop ■ FM ☐ Infrared ☐ One-To-One Communication ☐ Other	☐ Induction Loop ☐ FM ☐ Infrared ☐ One-To-One Communication ☐ Other
7) Is your ALD T-coil compatible?	Yes	Yes, with appropriate receiver	Yes
8) FM/Loop and TV/Home Listening System The effective range of your ALD?	: 100 feet	Approximately 50 feet indoors; 130-170 feet outdoors	Not Applicable
9) FM/Loop and TV/Home Listening Systems: Maximum amplification?	Depends upon hearing aid	Depends upon hearing aid	Not Applicable
10) For FM Systems with secure transmission done by encryption, coding, or both?	, Not Applicable	Not Applicable	Not Applicable
11) For FM System ALDs, how many channels are available?	32	27	Not Applicable
12) For FM or Infrared System ALDs, how many frequency bands are accessible		Not Applicable	Not Applicable
13) What is the power source for your ALD?	Battery	Rechargeable battery	AC adapter (battery back-up option in base) and battery in handset
14) If battery powered, estimate of operating time between changes/recharges?	8 Hours	Approximately 12 hours	10 Hours handset talk time; 100 Hours standby
15) Does your ALD have Direct Audio Input (DAI) capability?	Yes (R5)	Yes	Not Applicable
16) Indicate which of the following environments your ALD is effective i	 One-on-one conversations Multi-person meetings Lectures Shopping In The Car At the Theater Restaurants Watching Television Other-classroom 	 One-on-one conversations Multi-person meetings Lectures Shopping In The Car At the Theater Restaurants Watching Television Other-Bluetooth compatible 	One-on-one conversations Multi-person meetings Lectures Shopping In The Car At the Theater Restaurants Watching Television Other
17) Please list the accessories that are included with your ALD.	Rechargeable battery, power cord, aux-in cables, RCA cable, mic, earbuds	Lavaliere cord, audio input cable, interface, power supply, programming cable, travel case	Not Applicable
18) Does your ALD come with a warrant If so, how long?	? 2 Years repair, 1 year loss and damage	2 Years	1 Year
19) What differentiates this ALD from others in its class?	LED display on receiver; product upgrades through software not hardware; moisture repellent buttons. Transmitter performs as a programming and diagnostic tool.	Dynamic FM technology adapts the FM gain based on environmental noise levels. Improved speech recognition abilities in challenging environments.	Offers 55 dB receiver amplification; talking function (CID, keypad, control buttons) offers extra convenience for the vision impaired.

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Company Name: **Westone Laboratories Inc** Williams Sound Corp Address: 10321 W 70th St 2235 Executive Circle Colorado Springs, CO 80906 Eden Prairie, MN 55344 (800) 582-4771 (800) 328-6190 = (952) 943-2252 www.williamssound.com www.westone.com CLA7 BT Motiva Personal 1) What is the name of your Assistive Listening Device (ALD)? FM System 2) What year was this ALD introduced? 2008 2008 ☐ Alarms/Alerting Devices Alarms/Alerting Devices 3) Please select a primary category ■ FM/Loop Systems ■ FM/Loop Systems this ALD belongs in. ☐ TV/Home Listening ☐ TV/Home Listening 4) For ALDs in the Alarms/Alerting category, ■ Vibration Sonic Vibration ☐ Sonic ■ Other Flashing Flashing Other please select the features available. ☐ Amplification up to (please specify dB) Amplification up to (please specify dB) 5) For ALDs in the Telephones & Accessories category, please indicate Large backlit screen and keypad Large backlit screen and keypad Phone number storage Phone number storage the features available. Speakerphone Speakerphone Outgoing speech amplification Outgoing speech amplification Hands-free operation Hands-free operation Multi-function ring signaler Multi-function ring signaler Strobe ring signaler Strobe ring signaler Hearing Aid compatible Hearing Aid compatible Speed dial buttons Speed dial buttons Cap-Tel Compatible Cap-Tel Compatible 6) Please indicate your ALD's system(s). ■ Induction Loop Induction Loop ■ FM FM Infrared Infrared One-To-One Communication One-To-One Communication Other ■ Other (Built-in mic) 7) Is your ALD T-coil compatible? Yes (with neckloop or silhouette) Yes 8) FM/Loop and TV/Home Listening Systems: 30 feet The effective range of your ALD? 9) FM/Loop and TV/Home Listening 30 dB PFM R36: 128.1 dB - 128.9 dB; Systems: Maximum amplification? PFM R33: 128.0 dB - 128.2 dB 10) For FM Systems with secure transmissions, Not Applicable Not Applicable done by encryption, coding, or both? 11) For FM System ALDs, how many Not Applicable channels are available? 12) For FM or Infrared System ALDs, how Not Applicable 72-76 MHz many frequency bands are accessible? Lithium-Ion rechargeable battery 2 AA alkaline batteries, or 13) What is the power source for 2 AA Ni-MH rechargeable batteries your ALD? 14) If battery powered, estimate of operating 4 Hours talk time; up to 5 days standby AA alkaline batteries: 21-30 hours; rechargeable batteries: 17-20 hours time between changes/recharges? 15) Does your ALD have Direct Audio Not Applicable Yes (Boot and cable purchased separately) Input (DAI) capability? 16) Indicate which of the following ☐ One-on-one conversations ■ One-on-one conversations Multi-person meetings Multi-person meetings environments your ALD is effective in. Lectures Lectures Shopping Shopping ■ In The Car In The Car At the Theater At the Theater Restaurants Restaurants Watching Television Watching Television 17) Please list the accessories that bBase, Lithium-ion Battery, AC adapter, Lapel mic, earphone, plug mount environ-USB cable, car charger mental mic, belt clips, carry case are included with your ALD. 18) Does your ALD come with a warranty? 1 Year 5 Years If so, how long? 19) What differentiates this ALD from Excellent reception, transmission of audio; Customized with selectable compression eliminates interference between cell and adjustable frequency response. others in its class? 16 channels on the 72-76 MHz frequency. phones, hearing aids or cochlear Rubberized sides ensure easy handling. processors. Bluetooth compatible.

The Moisture Guard T Electronic Hearing Aid Dryer



An Ideal Premium with New Hearing Aids

★ Generates Referrals • Hearing Aid Users Memorize What They See Every Day Effectively Expels Cerumen and Sebaceous Oils Helps to Maintain Sound Quality and Performance Prevents Costly Repairs and Constant Service Calls

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