Welcome to *Hearing Review Products'* continuing series of **Technology Guide** product surveys. This marks our sixth matrix profiling a broad spectrum of hearing instruments. Last issue we finally ventured from behind the ear and went on the inside with a variety of full- and half-shell ITEs. This month we go right into the "canal zone" with the ITC offerings available from many of the top manufacturers.

But beyond what's presented on these following pages, there are more instruments to be found on our Web site, **www.hearingreview.com,** where you can download PDFs of this complete survey as well as the previous five.

— **Will Campbell**

ITCs [INSIDE THE CANAL] Hearing Aids

		Audifon 403 Chairman Court, Suite 1 Debary, FL 32713 (800) 776-0222 www.audifon.com audifon hearing systems	**Bernafon** 200 Cottontail Lane, Bldg B Somerset, NJ 08873 (888) 941-4203 www.bernafon-us.com bernafon Innovative Hearing Solutions
	Company Name: Address:		
1)	What is your product's name and model designation?	Axia IS	ICOS 315
2)	What was the month and year of the product's introduction?	October 2008	June 2005
3)	Of the following pricing classes, what best describes this product?	Premium Level	Premium Level
4)	What are the recommended fitting ranges?	☐ Severe to Profound (>90 dB HL) ☐ Severe (70-90 dB HL) ■ Moderate-to-Severe (55-69 dB HL) ■ Mild-to-Moderate (40-54 dB HL) ☐ Mild (20-39 dB HL)	☐ Severe to Profound (>90 dB HL) ☐ Severe (70-90 dB HL) ☐ Moderate-to-Severe (55-69 dB HL) ■ Mild-to-Moderate (40-54 dB HL) ☐ Mild (20-39 dB HL)
5)	What is the HF Average OSPL90 of the device?	57 dB	112 dB
6)	What is the HF Average Full-On Gain of the device?	48 - 50 dB	43 dB
7)	What is the frequency response of this model?	100 - 8000 Hz	100 - 7400 Hz
8)	Please specify this model's coupling system:	■ 2 cc Coupler ☐ Manufacturing Coupler ☐ 711 Coupler ☐ Other ☐ In Situ ☐ None/Not Applicable	■ 2 cc Coupler ☐ Manufacturing Coupler ☐ 711 Coupler ☐ Other ☐ In Situ ☐ None/Not Applicable
9)	How many channels or bands are employed in the device?	16	7
10)	Earmold options include	☐ Instant-fit occluding (with or without vents) ☐ Instant-fit non-occluding ☐ Custom-fit occluding (with or without vents) ☐ Custom-fit non-occluding ■ None/Not Applicable	☐ Instant-fit occluding (with or without vents) ☐ Instant-fit non-occluding ■ Custom-fit occluding (with or without vents) ☐ Custom-fit non-occluding ☐ None/Not Applicable
11)	What fitting formulae are available for programming?	■ NAL-NR ☐ DSL-5.0 ■ NAL-NL1 ☐ Proprietary ☐ NAL-NL2 Algorithm ☐ DSL-4.0 ☐ Other(s)	☐ NAL-NR ☐ DSL-5.0 ■ NAL-NL1 ■ Proprietary ☐ NAL-NL2 Algorithm ■ DSL-4.0 ■ Other(s)
12)	Which of the following features are included in the product?	■ Directional Microphone System ■ Manual VC/Memories ☐ Remote Control VC/Memories ■ Noise Reduction ☐ Speech Enhancement ■ Feedback Cancellation ☐ Occlusion Management ☐ Wind Noise Management ☐ Frequency Lowering ■ Datalogging ☐ Self-Learning ■ Wax Guard System ☐ Water Resistance ☐ Vent Estimation/Compensation ■ Voice/Alerting Indicators (eg, low battery alert) ☐ Rechargeable Battery ■ Telecoil ☐ FM System Compatibility ■ Bluetooth Compatibility	■ Directional Microphone System ■ Manual VC/Memories ■ Remote Control VC/Memories ■ Noise Reduction ☐ Speech Enhancement ■ Feedback Cancellation ■ Occlusion Management ■ Wind Noise Management ☐ Frequency Lowering ■ Datalogging ☐ Self-Learning ■ Wax Guard System ☐ Water Resistance ■ Vent Estimation/Compensation ☐ Voice/Alerting Indicators (eg, low battery alert) ☐ Rechargeable Battery ☐ Telecoil ☐ FM System Compatibility ☐ Bluetooth Compatibility
13)	If there is a directional system, what best describes the directional/memory mode function of this model?	Automatic switching between omni and directional listening programs	Multichannel fully adaptive directionality
14)	What is the number of listening programs or memories?	Three extra listing programs or memories	Three extra listing programs or memories
15)	What battery sizes are available for the hearing aid?	■ 10 ■ 312 ☐ 13 ☐ 675	☐ 10 ■ 312 ☐ 13 ☐ 675

Company Name: Address:	**Interton** 8001 Bloomington Fwy Bloomington, MN 55420 (800) 392-9932 www.simplyinterton.com INTERTON	**Oticon Inc** 29 Schoolhouse Rd Somerset, NJ 08873 (800) 526-3921 www.Oticonusa.com oticon PEOPLE FIRST	**Phonak** 4520 Weaver Pkwy Warrenville, IL 60555 (800) 777-7333 www.phonak-us.com PHONAK life is on
1) What is your product's name and model designation?	Avio 30D-HPG	Epoq XW	Exélia ART Power Canal VZ
2) What was the month and year of the product's introduction?	March 2009	April 2007	April 2009
3) Of the following pricing classes, what best describes this product?	Premium Level	Premium Level	Premium Level
4) What are the recommended fitting ranges?	☐ Severe to Profound (>90 dB HL) ☐ Severe (70-90 dB HL) ■ Moderate-to-Severe (55-69 dB HL) ■ Mild-to-Moderate (40-54 dB HL) ■ Mild (20-39 dB HL)	☐ Severe to Profound (>90 dB HL) ☐ Severe (70-90 dB HL) ■ Moderate-to-Severe (55-69 dB HL) ■ Mild-to-Moderate (40-54 dB HL) ■ Mild (20-39 dB HL)	☐ Severe to Profound (>90 dB HL) ■ Severe (70-90 dB HL) ■ Moderate-to-Severe (55-69 dB HL) ■ Mild-to-Moderate (40-54 dB HL) ■ Mild (20-39 dB HL)
5) What is the HF Average OSPL90 of the device?	115 dB	107 dB	113 dB
6) What is the HF Average Full-On Gain of the device?	44 dB	37 dB	50 dB
7) What is the frequency response of this model?	100 - 6260 Hz	100 - 9200 Hz	<100 - 6700 Hz
8) Please specify this model's coupling system:	■ 2 cc Coupler ☐ Manufacturing Coupler ☐ 711 Coupler ☐ Other ☐ In Situ ☐ None/Not Applicable	■ 2 cc Coupler ☐ Manufacturing Coupler ☐ 711 Coupler ☐ Other ☐ In Situ ☐ None/Not Applicable	■ 2 cc Coupler ☐ Manufacturing Coupler ☐ 711 Coupler ☐ Other ☐ In Situ ☐ None/Not Applicable
9) How many channels or bands are employed in the device?	12 Channels / 9 Adjustable Bands in Software	10 channels	20 channels
10) Earmold options include	☐ Instant-fit occluding (with or without vents) ☐ Instant-fit non-occluding ■ Custom-fit occluding (with or without vents) ■ Custom-fit non-occluding ☐ None/Not Applicable	☐ Instant-fit occluding (with or without vents) ☐ Instant-fit non-occluding ■ Custom-fit occluding (with or without vents) ☐ Custom-fit non-occluding ☐ None/Not Applicable	☐ Instant-fit occluding (with or without vents) ☐ Instant-fit non-occluding ☐ Custom-fit occluding (with or without vents) ☐ Custom-fit non-occluding ■ None/Not Applicable
11) What fitting formulae are available for programming?	☐ NAL-NR ☐ DSL-5.0 ■ NAL-NL1 ■ Proprietary Algorithm ☐ NAL-NL2 ■ DSL-4.0 ☐ Other(s)	☐ NAL-NR ☐ DSL-5.0 ■ NAL-NL1 ■ Proprietary Algorithm ☐ NAL-NL2 ☐ DSL-4.0 ☐ Other(s)	☐ NAL-NR ■ DSL-5.0 ■ NAL-NL1 ■ Proprietary Algorithm ☐ NAL-NL2 ☐ DSL-4.0 ■ Other(s)
12) Which of the following features are included in the product?	■ Directional Microphone System ■ Manual VC/Memories ☐ Remote Control VC/Memories ■ Noise Reduction ■ Speech Enhancement ■ Feedback Cancellation ■ Occlusion Management ■ Wind Noise Management ■ Frequency Lowering ■ Datalogging ■ Self-Learning ■ Wax Guard System ☐ Water Resistance ■ Vent Estimation/Compensation ■ Voice/Alerting Indicators (eg, low battery alert) ☐ Rechargeable Battery ■ Telecoil ☐ FM System Compatibility ☐ Bluetooth Compatibility	■ Directional Microphone System ■ Manual VC/Memories ■ Remote Control VC/Memories ■ Noise Reduction ■ Speech Enhancement ■ Feedback Cancellation ■ Occlusion Management ■ Wind Noise Management ☐ Frequency Lowering ■ Datalogging ■ Self-Learning ■ Wax Guard System ■ Water Resistance ■ Vent Estimation/Compensation ■ Voice/Alerting Indicators (eg, low battery alert) ☐ Rechargeable Battery ☐ Telecoil ☐ FM System Compatibility ■ Bluetooth Compatibility	■ Directional Microphone System ■ Manual VC/Memories ■ Remote Control VC/Memories ■ Noise Reduction ■ Speech Enhancement ■ Feedback Cancellation ■ Occlusion Management ■ Wind Noise Management ☐ Frequency Lowering ■ Datalogging ■ Self-Learning ■ Wax Guard System ☐ Water Resistance ■ Vent Estimation/Compensation ■ Voice/Alerting Indicators (eg, low battery alert) ☐ Rechargeable Battery ■ Telecoil ■ FM System Compatibility ■ Bluetooth Compatibility
13) If there is a directional system, what best describes the directional/memory mode function of this model?	Multichannel fully adaptive directionality	Multichannel fully adaptive directionality	Multichannel fully adaptive directionality
14) What is the number of listening programs or memories?	Four extra listing programs or memories	Three extra listing programs or memories	Five or more extra listing programs or memories
15) What battery sizes are available for the hearing aid?	■ 10 ■ 312 ☐ 13 ☐ 675	☐ 10 ■ 312 ☐ 13 ☐ 675	☐ 10 ■ 312 ☐ 13 ☐ 675

Company Name: Address:	**Siemens Hearing Instruments Inc** 10 Constitution Ave Piscataway, NJ 08855 (800) 766-4500 www.usa.siemens.com/hearing **SIEMENS**	**Sonic Innovations** 2795 E Cottonwood Pkwy, Suite 660 Salt Lake City, UT 84121 (888) 423-7834 www.sonici.com **SONIC innovations**	**Starkey** 6700 Washington Ave S Eden Prairie, MN 55344 (800) 328-8602 www.starkeypro.com **Starkey**
1) What is your product's name and model designation?	Motion 700	Velocity 24	S Series 11
2) What was the month and year of the product's introduction?	November 2008	August 2008	April 2009
3) Of the following pricing classes, what best describes this product?	Premium Level	Premium Level	Premium Level
4) What are the recommended fitting ranges?	☐ Severe to Profound (>90 dB HL) ☐ Severe (70-90 dB HL) ■ Moderate-to-Severe (55-69 dB HL) ■ Mild-to-Moderate (40-54 dB HL) ■ Mild (20-39 dB HL)	☐ Severe to Profound (>90 dB HL) ■ Severe (70-90 dB HL) ☐ Moderate-to-Severe (55-69 dB HL) ☐ Mild-to-Moderate (40-54 dB HL) ☐ Mild (20-39 dB HL)	■ Severe to Profound (>90 dB HL) ■ Severe (70-90 dB HL) ■ Moderate-to-Severe (55-69 dB HL) ■ Mild-to-Moderate (40-54 dB HL) ■ Mild (20-39 dB HL)
5) What is the HF Average OSPL90 of the device?	118 dB	106 dB	106 - 126 dB
6) What is the HF Average Full-On Gain of the device?	50 dB	36 dB	36-65
7) What is the frequency response of this model?	100 - 7600 Hz (up to 12,000 Hz with SoundBrilliance on)	200 - 5600 Hz	100 - 7000 Hz
8) Please specify this model's coupling system:	■ 2 cc Coupler ☐ Manufacturing Coupler ☐ 711 Coupler ☐ Other ☐ In Situ ☐ None/Not Applicable	■ 2 cc Coupler ☐ Manufacturing Coupler ☐ 711 Coupler ☐ Other ☐ In Situ ☐ None/Not Applicable	■ 2 cc Coupler ☐ Manufacturing Coupler ☐ 711 Coupler ☐ Other ☐ In Situ ☐ None/Not Applicable
9) How many channels or bands are employed in the device?	16	24	16 Channels / 16 Bands
10) Earmold options include	☐ Instant-fit occluding (with or without vents) ☐ Instant-fit non-occluding ■ Custom-fit occluding (with or without vents) ■ Custom-fit non-occluding ☐ None/Not Applicable	☐ Instant-fit occluding (with or without vents) ☐ Instant-fit non-occluding ■ Custom-fit occluding (with or without vents) ■ Custom-fit non-occluding ☐ None/Not Applicable	☐ Instant-fit occluding (with or without vents) ☐ Instant-fit non-occluding ☐ Custom-fit occluding (with or without vents) ☐ Custom-fit non-occluding ■ None/Not Applicable
11) What fitting formulae are available for programming?	☐ NAL-NR ■ DSL-5.0 ■ NAL-NL1 ■ Proprietary ☐ NAL-NL2 Algorithm ☐ DSL-4.0 ☐ Other(s)	☐ NAL-NR ■ DSL-5.0 ■ NAL-NL1 ■ Proprietary ☐ NAL-NL2 Algorithm ☐ DSL-4.0 ☐ Other(s)	■ NAL-NR ■ DSL-5.0 ■ NAL-NL1 ■ Proprietary ☐ NAL-NL2 Algorithm ■ DSL-4.0 ■ Other(s)
12) Which of the following features are included in the product?	■ Directional Microphone System ■ Manual VC/Memories ■ Remote Control VC/Memories ■ Noise Reduction ■ Speech Enhancement ■ Feedback Cancellation ☐ Occlusion Management ■ Wind Noise Management ☐ Frequency Lowering ■ Datalogging ■ Self-Learning ■ Wax Guard System ☐ Water Resistance ■ Vent Estimation/Compensation ■ Voice/Alerting Indicators (eg, low battery alert) ☐ Rechargeable Battery ■ Telecoil ☐ FM System Compatibility ■ Bluetooth Compatibility	■ Directional Microphone System ■ Manual VC/Memories ☐ Remote Control VC/Memories ■ Noise Reduction ■ Speech Enhancement ■ Feedback Cancellation ■ Occlusion Management ■ Wind Noise Management ☐ Frequency Lowering ■ Datalogging ☐ Self-Learning ■ Wax Guard System ☐ Water Resistance ☐ Vent Estimation/Compensation ■ Voice/Alerting Indicators (eg, low battery alert) ☐ Rechargeable Battery ■ Telecoil ☐ FM System Compatibility ■ Bluetooth Compatibility	■ Directional Microphone System ■ Manual VC/Memories ■ Remote Control VC/Memories ■ Noise Reduction ■ Speech Enhancement ■ Feedback Cancellation ■ Occlusion Management ■ Wind Noise Management ☐ Frequency Lowering ■ Datalogging ☐ Self-Learning ■ Wax Guard System ☐ Water Resistance ■ Vent Estimation/Compensation ■ Voice/Alerting Indicators (eg, low battery alert) ☐ Rechargeable Battery ■ Telecoil ☐ FM System Compatibility ☐ Bluetooth Compatibility
13) If there is a directional system, what best describes the directional/memory mode function of this model?	Automatic switching between omni and directional listening programs	Multichannel fully adaptive directionality	Automatic switching between omni and directional listening programs
14) What is the number of listening programs or memories?	Five or more extra listing programs or memories	Four extra listing programs or memories	Four extra listing programs or memories
15) What battery sizes are available for the hearing aid?	☐ 10 ■ 312 ☐ 13 ☐ 675	■ 10 ■ 312 ☐ 13 ☐ 675	■ 10 ■ 312 ■ 13 ☐ 675

Company Name: Address:	**Unitron** 2300 Berkshire Lane, Suite A Plymouth, MN 55441 (800) 888-8882 www.unitron.com	**Widex** 14-33 31st Ave Long Island City, NY 11106 (800) 221-0188 www.widexusa.com
	unitron connect	**WIDEX**
1) What is your product's name and model designation?	Yuu Canal	Mind440 M4-X
2) What was the month and year of the product's introduction?	November 2007	October 2008
3) Of the following pricing classes, what best describes this product?	Premium Level	Premium Level
4) What are the recommended fitting ranges?	☐ Severe to Profound (>90 dB HL) ☐ Severe (70-90 dB HL) ■ Moderate-to-Severe (55-69 dB HL) ■ Mild-to-Moderate (40-54 dB HL) ■ Mild (20-39 dB HL)	☐ Severe to Profound (>90 dB HL) ■ Severe (70-90 dB HL) ■ Moderate-to-Severe (55-69 dB HL) ■ Mild-to-Moderate (40-54 dB HL) ■ Mild (20-39 dB HL)
5) What is the HF Average OSPL90 of the device?	109 dB	111 dB
6) What is the HF Average Full-On Gain of the device?	42 dB	56 dB
7) What is the frequency response of this model?	200 - 6500 Hz	100 - 8100 Hz
8) Please specify this model's coupling system:	■ 2 cc Coupler ☐ Manufacturing Coupler ☐ 711 Coupler ☐ Other ☐ In Situ ☐ None/Not Applicable	■ 2 cc Coupler ☐ Manufacturing Coupler ☐ 711 Coupler ☐ Other ☐ In Situ ☐ None/Not Applicable
9) How many channels or bands are employed in the device?	20 Channels / 20 Bands	15
10) Earmold options include	☐ Instant-fit occluding (with or without vents) ☐ Instant-fit non-occluding ☐ Custom-fit occluding (with or without vents) ☐ Custom-fit non-occluding ■ None/Not Applicable	☐ Instant-fit occluding (with or without vents) ☐ Instant-fit non-occluding ☐ Custom-fit occluding (with or without vents) ☐ Custom-fit non-occluding ■ None/Not Applicable
11) What fitting formulae are available for programming?	☐ NAL-NR ■ DSL-5.0 ■ NAL-NL1 ☐ Proprietary ☐ NAL-NL2 Algorithm ■ DSL-4.0 ☐ Other(s)	☐ NAL-NR ☐ DSL-5.0 ☐ NAL-NL1 ■ Proprietary ☐ NAL-NL2 Algorithm ☐ DSL-4.0 ☐ Other(s)
12) Which of the following features are included in the product?	■ Directional Microphone System ■ Manual VC/Memories ■ Remote Control VC/Memories ■ Noise Reduction ■ Speech Enhancement ■ Feedback Cancellation ■ Occlusion Management ■ Wind Noise Management ☐ Frequency Lowering ■ Datalogging ■ Self-Learning ■ Wax Guard System ☐ Water Resistance ■ Vent Estimation/Compensation ■ Voice/Alerting Indicators (eg, low battery alert) ☐ Rechargeable Battery ■ Telecoil ■ FM System Compatibility ☐ Bluetooth Compatibility	■ Directional Microphone System ■ Manual VC/Memories ■ Remote Control VC/Memories ■ Noise Reduction ■ Speech Enhancement ■ Feedback Cancellation ■ Occlusion Management ■ Wind Noise Management ■ Frequency Lowering ■ Datalogging ☐ Self-Learning ■ Wax Guard System ☐ Water Resistance ■ Vent Estimation/Compensation ■ Voice/Alerting Indicators (eg, low battery alert) ☐ Rechargeable Battery ■ Telecoil ☐ FM System Compatibility ☐ Bluetooth Compatibility
13) If there is a directional system, what best describes the directional/memory mode function of this model?	Multichannel fully adaptive directionality	Multichannel fully adaptive directionality
14) What is the number of listening programs or memories?	Three extra listing programs or memories	Five or more extra listing programs or memories
15) What battery sizes are available for the hearing aid?	☐ 10 ■ 312 ☐ 13 ☐ 675	☐ 10 ■ 312 ☐ 13 ☐ 675