

Element™ 16 Custom

AutoPro2™

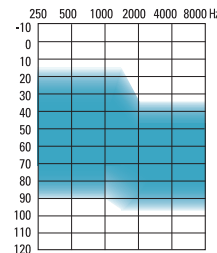
16 Channels, 16 Bands, Adaptive Directionality

HEARING AID FEATURES

- AutoPro2™ intelligently analyzes the input signal and quickly adapts to one of 2 distinct destinations. Within each destination, the adaptive features can be customized for optimal listening and comfort.
- Adaptive directional microphone system tracks and suppresses moving noise sources, while focusing on sounds from the front
- Noise reduction analyzes input and automatically reduces noise signals independently in each of the 16 bands
- Speech enhancement LD analyzes the input signal and automatically emphasizes speech signals independently in each of the 16 bands. The amount of speech enhancement applied is based on the input level of the identified speech signals.
- AntiShock instantaneously reduces the level of impulse noises such as a door slam, while maintaining the quality and intelligibility of speech
- Phase canceller continuously monitors for feedback and accurately calculates and applies the required counter signal for feedback cancellation
- Wind noise manager intuitively engages based on moderate or high wind conditions
- 16 channels provide high resolution signal processing
- Choice of 2 processing strategies (WDRC and Linear Limiting) for increased fitting flexibility
- 3 additional manual programs provide customization for individual needs and preferences
- Ideal volume indicator provides a beep notification when recommended gain is reached on the volume control
- Data logging accurately records the wearer's usage, volume control changes and manual program use
- Low battery warning
- Start up delay
- On/Off by opening or closing the battery door or by rotating the manual VC
- Element 16 can be programmed using NOAH-compatible U:fit™ and Standalone U:fit fitting software

OPTIONS

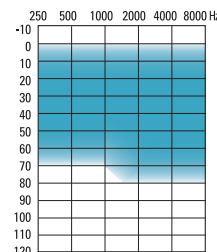
- Telecoil (T) or Microphone/Telecoil (MT) option can be set as one of the three manual programs
- Easy-t provides automatic switching to a dedicated telephone program



Fitting Guide



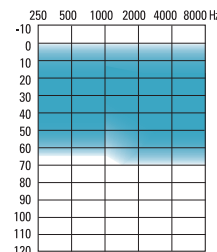
122/60
Full Shell Power



Fitting Guide



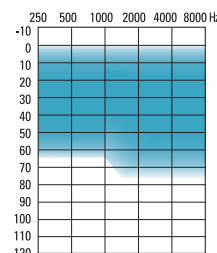
115/50
Full Shell



Fitting Guide



113/48
Half Shell / Canal



Fitting Guide



112/40
Mini Canal / CIC

Element 16 Custom is suitable for fitting mild to severe hearing losses and can fit audiogram configurations ranging from reverse to precipitously sloping.

Element 16 Custom

ANSI S3.22-1996 / IEC 118-7 2CC COUPLER TECHNICAL DATA		ANSI S3.22-1996 / IEC 118-7 2CC COUPLER TECHNICAL DATA		ANSI S3.22-1996 / IEC 118-7 2CC COUPLER TECHNICAL DATA		ANSI S3.22-1996 / IEC 118-7 2CC COUPLER TECHNICAL DATA		ANSI S3.22-1996 / IEC 118-7 2CC COUPLER TECHNICAL DATA		ANSI S3.22-1996 / IEC 118-7 2CC COUPLER TECHNICAL DATA		ANSI S3.22-1996 / IEC 118-7 2CC COUPLER TECHNICAL DATA		ANSI S3.22-1996 / IEC 118-7 2CC COUPLER TECHNICAL DATA	
	CIC/ Mini Canal	Canal/ Half Shell	Full Shell	Full Shell Power		CIC/ Mini Canal	Canal/ Half Shell	Full Shell	Full Shell Power		CIC/ Mini Canal	Canal/ Half Shell	Full Shell	Full Shell Power	
OSPL90 Maximum HFA at 1.6 kHz	112 dB	113 dB	115 dB	122 dB		122 dB	123 dB	125 dB	131 dB	OSPL90 Maximum Output at 1.6 kHz	122 dB	123 dB	125 dB	131 dB	
	108 dB	109 dB	110 dB	119 dB		114 dB	115 dB	116 dB	130 dB		114 dB	115 dB	116 dB	130 dB	
106 dB	107 dB	108 dB	121 dB			40 dB	48 dB	50 dB	60 dB	Full on Gain (input 50 dB) Maximum HFA at 1.6 kHz	51 dB	58 dB	60 dB	70 dB	
33 dB	41 dB	42 dB	53 dB	40 dB		42 dB	40 dB	56 dB	40 dB		49 dB	50 dB	64 dB		
32 dB	40 dB	40 dB	56 dB			200- 7000	200- 7100	200- 6500	200- 5600	Basic Frequency Response (based on full shell 118/50) Frequency Range (Hz) Reference Test Gain (ANSI 1996)	200- 7600	200- 8000	200- 7100	200- 5300	
31 dB	32 dB	33 dB	42 dB	31 dB		33 dB	33 dB	42 dB	33 dB		39 dB	40 dB	54 dB		
Induction Coil Sensitivity (ANSI 1996, 31.6 mA/m) (based on full shell 118/50) HFA SPLITS STS	91 dB	92 dB	94 dB	102 dB		91 dB	92 dB	94 dB	102 dB	Induction Coil Sensitivity (1 mA/m) (based on full shell 118/50) Maximum at 1.6 kHz	80 dB	89 dB	90 dB	100 dB	
	0 dB	0 dB	1 dB	0 dB		0 dB	0 dB	1 dB	0 dB		0 dB	70 dB	79 dB	80 dB	
Current Drain at RTG	1.0 mA	1.1 mA	1.1 mA	1.1 mA		1.0 mA	1.0 mA	1.0 mA	1.1 mA	Current Drain at RTG Battery Size Typical Battery Life Equivalent Input Noise at RTG Total Harmonic Distortion at 500 Hz at 800 Hz at 1600 Hz EMC immunity by IEC 118-13, Field Strength 75/50 V/m, Omni mode IIRL Low/High band dB SPL	1.0 mA	1.0 mA	1.0 mA	1.1 mA	Current Drain at RTG Battery Size Typical Battery Life Equivalent Input Noise at RTG Total Harmonic Distortion at 500 Hz at 800 Hz at 1600 Hz EMC immunity by IEC 118-13, Field Strength 75/50 V/m, Omni mode IIRL Low/High band dB SPL
Battery Size	10A	312	13	13		10A	312	13	13		10A	312	13	13	
Typical Battery Life	90 h	135 h	260 h	260 h	Test Conditions: Battery: 10/312/13 Source: Voltage 1.3 V Vent: Closed at canal end The measurement data obtained with hearing aid set to omni mode with all adaptive features disabled.	90 h	150 h	290 h	260 h	Typical Battery Life Equivalent Input Noise at RTG Total Harmonic Distortion at 500 Hz at 800 Hz at 1600 Hz EMC immunity by IEC 118-13, Field Strength 75/50 V/m, Omni mode IIRL Low/High band dB SPL	90 h	150 h	290 h	260 h	Typical Battery Life Equivalent Input Noise at RTG Total Harmonic Distortion at 500 Hz at 800 Hz at 1600 Hz EMC immunity by IEC 118-13, Field Strength 75/50 V/m, Omni mode IIRL Low/High band dB SPL
Equivalent Input Noise at RTG	22 dB	22 dB	22 dB	22 dB		22 dB	22 dB	22 dB	22 dB		22 dB	21 dB	21 dB	21 dB	
Total Harmonic Distortion	1.0%	1.5%	1.0%	1.0%	Test Conditions: Battery: 10/312/13 Source: Voltage 1.3 V Vent: Closed at canal end The measurement data obtained with hearing aid set to omni mode with all adaptive features disabled.	1.0%	1.5%	1.0%	1.0%	Total Harmonic Distortion at 500 Hz at 800 Hz at 1600 Hz EMC immunity by IEC 118-13, Field Strength 75/50 V/m, Omni mode IIRL Low/High band dB SPL	1.5%	1.5%	1.0%	1.5%	Total Harmonic Distortion at 500 Hz at 800 Hz at 1600 Hz EMC immunity by IEC 118-13, Field Strength 75/50 V/m, Omni mode IIRL Low/High band dB SPL
at 500 Hz	0.5%	1.5%	1.0%	1.0%		0.5%	1.5%	1.0%	1.0%		0.5%	1.5%	1.0%	1.5%	
at 800 Hz	0.5%	1.5%	1.0%	0.5%	Test Conditions: Battery: 10/312/13 Source: Voltage 1.3 V Vent: Closed at canal end The measurement data obtained with hearing aid set to omni mode with all adaptive features disabled.	0.5%	1.5%	0.5%	0.5%	at 500 Hz at 800 Hz at 1600 Hz EMC immunity by IEC 118-13, Field Strength 75/50 V/m, Omni mode IIRL Low/High band dB SPL	1.0%	1.5%	0.5%	1.0%	at 500 Hz at 800 Hz at 1600 Hz EMC immunity by IEC 118-13, Field Strength 75/50 V/m, Omni mode IIRL Low/High band dB SPL
at 1600 Hz	0.5%	1.5%	0.5%	0.5%		0.5%	1.5%	0.5%	0.5%		0.5%	1.0%	0.5%	1.0%	
EMC immunity by IEC 118-13, Field Strength 75/50 V/m, Omni mode	37/38	38/38	36/40	38/38	Test Conditions: Battery: 10/312/13 Source: Voltage 1.3 V Vent: Closed at canal end The measurement data obtained with hearing aid set to omni mode with all adaptive features disabled.	37/38	38/38	36/40	38/38	EMC immunity by IEC 118-13, Field Strength 75/50 V/m, Omni mode IIRL Low/High band dB SPL	37/38	38/38	36/40	38/38	EMC immunity by IEC 118-13, Field Strength 75/50 V/m, Omni mode IIRL Low/High band dB SPL
IIRL Low/High band dB SPL	37/38	38/38	36/40	38/38		37/38	38/38	36/40	38/38		38/38	37/38	38/38	36/40	

We reserve the right to change specification data without notice as improvements are introduced.

