

Conventional Sound Processing MPS

Capture	
Microphone Frequency Range	150 Hz–8000 Hz
Effective Audio Sampling Rate	17.4 kHz
Mapping Input Dynamic Range	20 dB–80 dB programmable (60 dB default)
Pre-Emphasis Filtering	Platinum BTE®, CII Bionic Ear® BTE, Platinum Series™ Processor, HiRes® Auria® BTE & Auria® Harmony™ BTE: cascade of highpass Butterworth filters
Automatic Gain Control (AGC) (Enabled - default)	Cambridge dual loop AGC (AGC II)
Automatic Gain Control (AGC) (disabled)	Functions as linear peak clipping for signal above the maximum specified system limit
Sensitivity	+/-10 dB (0 dB default)

Compose	
Filter Bands	8 maximum
Spectrum Filtering	Sixth order Butterworth bandpass
Acoustic Equalization (Gain)	+/-10 dB (0 dB default)

Detail	
Envelop Extraction	Bin averaging
Rectification	Half wave

Deliver	
Telemetry	1.0 Mbps bandwidth Continuous bi-directional
Output Circuits (Channels)	8 out of 16 independent current sources enabled (HiRes® 90K/CII) to form up to 8 channels
Electrodes	8 out of 16 maximum enabled—programmable (typically all odd or even)
Spectral Bands	8 maximum—programmable, logarithmically spaced
Spectrum Mapping	Full capture range
Output Current	0 μ A–2040 μ A , 0-6000 CU scale
Coupling	Monopolar
Pulse Width	75 μ s–229 μ s, manually programmable
Firing Order	Apex to base
Simultaneity	Simultaneous Paired (1-4, 2-5, 3-6, 4-8)
Rate	1657 pps per channel/13256 pps maximum—programmable

Boston Scientific

www.BionicEar.com
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Auditory Business

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