SeboTek® Voice-Q™ 720 PAC
Post Auricular Canal Hearing Instrument

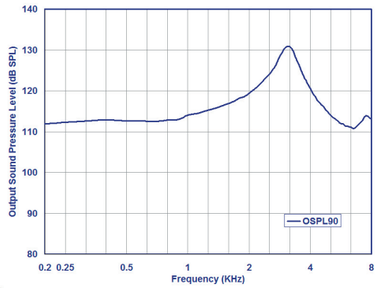
Ear Simulation Data
CIC Coupler

ANSI S3.22-1996
2cc Coupler

Output Sound Pressure Level

Maximum
OSPL90
131 dB SPL

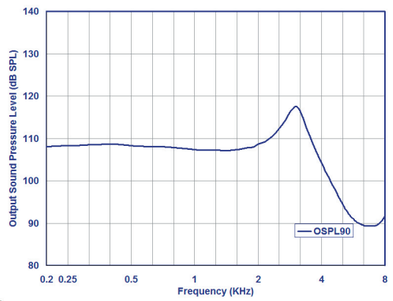
HFA-OSPL90
118 dB SPL



Output Sound Pressure Level

Maximum
OSPL90
117 dB SPL

HFA-OSPL90
110 dB SPL

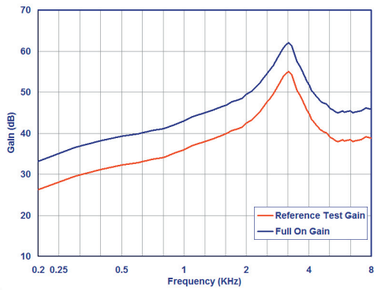


Acoustic Gain

Maximum
62 dB

HFA-FOG
48 dB

HFA-RTG
41 dB

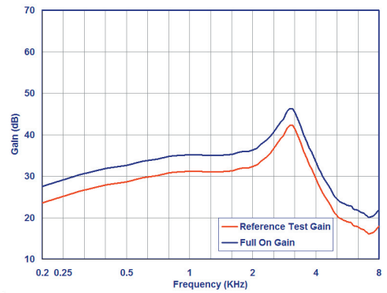


Acoustic Gain

Maximum
47 dB

HFA-FOG
37 dB

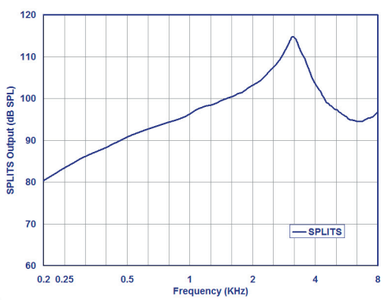
HFA-RTG
33 dB



SPLITS Telecoil Sensitivity

HFA-SPLITS
101 dB

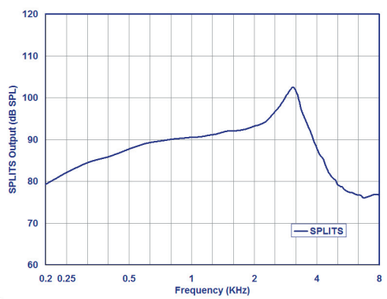
STS-SPLITS
0 dB



SPLITS Telecoil Sensitivity

HFA-SPLITS
93 dB

STS-SPLITS
0 dB



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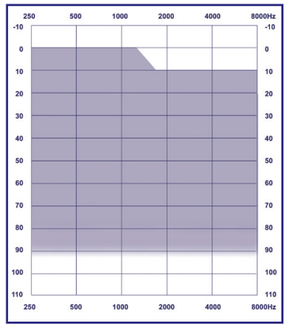
Post Auricular Canal Hearing Instrument



System Features

- Premium digital signal processing
- High fidelity DSP for extended bandwidth up to 14,000 Hz
- Discreet instrument for mild to severe losses - all audiometric configurations (flat, sloping, ski slope, reverse slope, cookie bite)
- Deep canal fit
- Directional matched microphones
- Four programmable, user-selectable memories

Voice-Q™ 720 Sound Processor

1. Directional Microphone Protective Hoods
2. Moisture-resistant Memory Switch
3. Link Connector
4. Battery Door

Audio Processing Features

- 4 Channel Wide Dynamic Range Compression
- High fidelity expanded acoustic response
- Noise manager
- Expansion: programmable multichannel kneepoints
- Adjustable compression ratio 1:1 to infinity
- 3 programmable crossover controls
- Feedback manager, manual or automatic
- Output limits: programmable
- Threshold kneepoint, adjustable from 30-70 dB in each channel
- Attack and release times: independently adjustable in each channel
- AutoFit: based on a proprietary algorithm
- Modification wizard (for program adjustments)
- Telecoil: programmable

User Features

- Memory beeps: programmable frequencies
- #13 battery: up to four weeks of battery life
- Low-battery indicator (two beeps/minute): programmable
- Lock-tight battery door with snap-lock closure
- Push-button memory switch
  - Water and dust resistant
  - Light-touch activation
  - User-friendly, easy-grip textured design
  - Easy to access location

Technical Features

- 32 KHz sampling rate
- 2 Sigma/Delta AD converters
  - 20-bit resolution
  - 2.048 MHz clock rate
- Digital Power Amplifier: 32 KHz, 20 bit audio signal
- 0.18 micron chip technology
- 95 dB input dynamic range
- 83 dB output dynamic range
- Headroom expander circuitry

Directional Microphone Features

- Directional circuitry
- Microphones digitally calibrated to 0.1 dB
- 50 directional patterns; programmable
- Acoustically-enhanced coupling

Design Features

- Moisture-resistant, solid-state, wire-free processor design
- State-of-the-art technology design and manufacturing processes
- Environment-resistant, solid-connection, flex-connect programming assembly
- Environment-resistant, solid-connection power contacts
- Lightweight, ergonomically-designed case
- Compatible with quality cell phones
- Compatible with neck loop and FM systems

SEBOTEK®

SeboTek® Voice-Q™ 720 PAC
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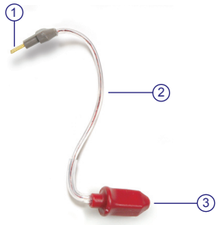
Speaker Link

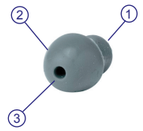


1. Processor connector
2. Environmentally-encapsulated wire
3. Protected speaker

Speaker Link

- Hermetically sealed wire blocks moisture/residue transfer
- Acoustically transparent speaker housing
- Highly resistant to moisture and dust
- High-strength sheathing withstands aggressive handling
- Shock resistant
- Minimizes cerumen-related effects
- Environmentally resistant
- Lock-tight, easy-connect/disconnect design

Ultra-Soft Tip

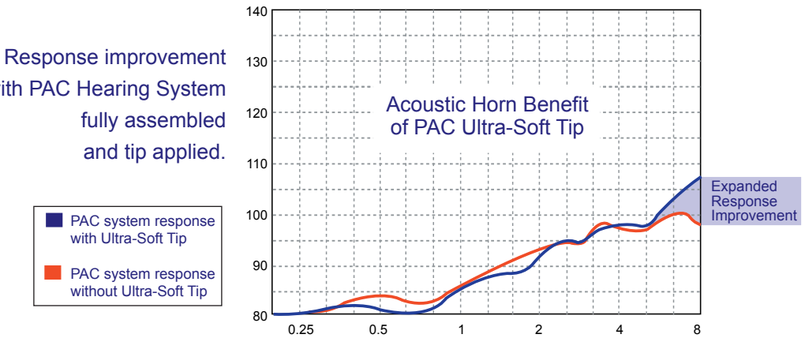


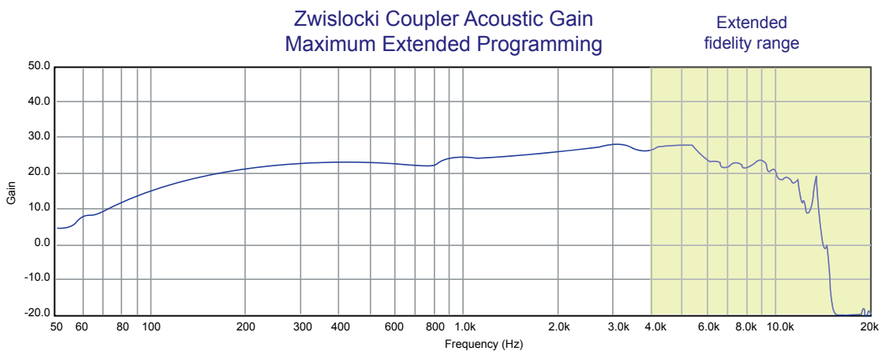
1. Speaker collar
2. Mushroom tip
3. Acoustically-designed horn

Ultra Soft Tip

- Soft-touch, medical-grade, hypoallergenic silicone construction
- Horn design maximizes acoustic effect
- Designed to navigate varying canal geometries
- Consistently positions speaker port away from canal wall
- Extends cerumen-control capability provided by Speaker Link

Response improvement with PAC Hearing System fully assembled and tip applied.





SeboTek® Voice-Q™ 720 PAC
Post Auricular Canal Hearing Instrument

*Technical Specifications**

Specification	CIC**	2cc
Standard		ANSI S3.22 1996
Acoustic Gain (50 dB SPL input)		
Maximum	62 dB	47 dB
HFA full-on gain	48 dB	37 dB
RTG	41 dB	33 dB
OSPL90 (90 dB SPL input)		
Maximum	131 dB SPL	117 dB SPL
HFA- OSPL90	118 dB SPL	110 dB SPL
Frequency Range	< 200 to > 8000 Hz	< 200 to > 8000 Hz
Total Harmonic Distortion		
500 Hz	1%	1%
800 Hz	1%	1%
1600 Hz	2%	2%
Current Drain		
Reference Test	0.8 mA	0.8 mA
Maximum	1.2 mA	1.2 mA
Equivalent Input Noise	18 dB	20 dB
Telecoil Sensitivity		
31.6 mA/m Wand @ 3000 Hz	118 dB SPL	102 dB SPL
31.6 mA/m Wand @ 1600 Hz	108 dB SPL	94 dB SPL
HFA-SPLITS	101 dB SPL	93 dB SPL
STS-SPLITS	0 dB SPL	0 dB
Compression		
Attack time	5 ms	5 ms
Recovery time	250 ms	250 ms

*Testing conducted with PAC system fully assembled - medium speaker link, SeboTek 2cc and CIC couplers, with a 10mm tip.
** CIC test protocol is recommended to more accurately demonstrate system performance.

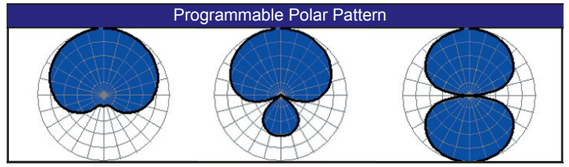
Microphone sensitivity	Standard	+/- 1dB
	Operational	+/- 0.1dB
Microphone phasing		<2°
Microphone Directivity Index Improvement		5.4 dB

Processor Weight	Processor only	0.9 g

Software/Hardware

- Pro-VES™ Software version 4.3 or later
- Programmable with PC (IBM Compatible) and Hi-PRO interface
- Stand-alone software available
- Programming cables - CS64
- Programming strips - CS64 (4 pin)

Programmable Polar Pattern



Cardioid Hyper Cardioid Bi-Directional

Software programmable, 50 polar plots available.