

POWER BTE BEHIND-THE-EAR

AXIOST 32 24 16



Features

Sound Imaging

Axio ST 32

Optimal high-resolution sound imaging with frequency shaping in all 16 channels and 16 bands

Axio ST 24

High-resolution sound imaging with frequency shaping in 12 channels and 12 bands

Axio ST 16

Frequency shaping in 8 channels and 8 bands

SpeechTrax

- So fast and smart it reduces noise between syllables of speech
- Two-part algorithm uses dynamic voice identification, coupled with a spectral noise control that calculates appropriate gain on a per channel basis
- Reduces listening effort and mental fatigue
- Active at positive signal-to-noise ratios
- Provides unprecedented sound quality, ease of listening, and intelligibility of speech in noise

Adaptive Environmental Sequencing

Axio ST 32

- Premium 16-channel environmental adaptation with 5 levels of personalization
- Acoustic Landscape includes: Machine Noise, Speech in Noise, Wind and Quiet

Axio ST 24

- Advanced 12-channel environmental adaptation with 3 levels of personalization
- Acoustic Landscape includes: Machine Noise, Speech in Noise, Wind and Quiet

Axio ST 16

- Select 8-channel environmental adaptation with 2 levels of personalization
- Acoustic Landscape includes: Machine Noise, Wind and Quiet

Strategic Feedback Control

- Provides best-in-class feedback cancellation
- When fit open, Axio ST has the widest fitting range and usable high-frequency bandwidth of any open fit instrument in its class

Dynamic Directional Detection

- Automatically adapts to ensure optimal performance in all listening situations
- Axio ST boasts the highest mean DI scores and the lowest operational noise floor, helping patients significantly increase their understanding in noise

SmartTouch™

An industry first that replaces difficult-to-adjust buttons and dials with an innovative control surface — so patients can make volume and memory adjustments with the sweep or touch of a finger

Advanced HydraShield®

MicroTech's proprietary moisture protection system that integrates nano-coating, unibody construction and smart component placement making Axio ST standard hearing instruments 100% resistant to water, humidity, perspiration and corrosion — both inside and out

MT Connect™

MicroTech's leading On Demand options bring the benefits of telehealth to your practice. Designed to elevate your interaction with patients, each one provides an entirely new way for you to provide and deliver care.

T² On Demand

Allows you to make common, standard adjustments to patients' hearing aids over the phone

Audiology On Demand™

Provides on-call access to an audiologist who can remotely operate your fitting computer, offer suggestions and guidance, and ensure a successful fitting

T² Remote

Adjustment for volume and memory via any cell or touch-tone telephone

Live Real Ear Measurement

Provides accurate measures of real-ear output in your patient's ear, in real-ear SPL, while the system evaluates the hearing aid response and matches to your selected target — providing you with the most precise fitting information available

Live 3D Speech Mapping

Available on Axio ST 32

- Allows hearing professional to verify how the hearing aid processes speech, or any live acoustic input, in real time
- 3D display engages patient and family in fitting process

Live Speech Mapping

Verifies hearing aid's processing of speech, or any live acoustic input, in real time

Self Check

Available on Axio ST 32

Allows hearing professional and patient to perform a diagnostic check of the microphone, circuit and receiver

Reminder

Available on Axio ST 32

Offers hearing professionals the option of programming audible voice or tone reminders for follow-up appointments and maintenance checks

Leisure Listening Memories

TV memory program designed for optimal performance while watching television

Available on Axio ST 32

Multiple music genre settings designed to maximize sound quality and listening enjoyment

Automatic Telephone Solutions

Automatically detects telephone use and adjusts to the optimal acoustic frequency response for telephone listening

Voice Indicators

Available on Axio ST 32

Alerts patients to the status of their hearing aid, low battery, memory and telephone modes in their choice of male or female voices in a wide variety of languages

Tonal Indicators

Unique tones for memory, low battery, etc.

Auto Path

- Automatic fitting routine
- Provides an accurate and efficient first fit

Verify Comfort

In-Situ Audiometry

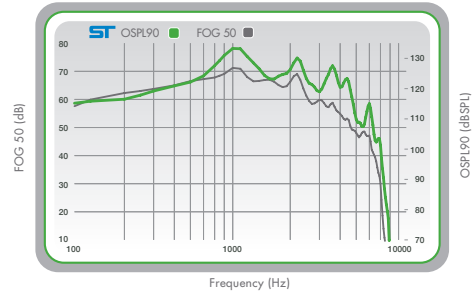
Data Logging

AXIO ST POWER BTE

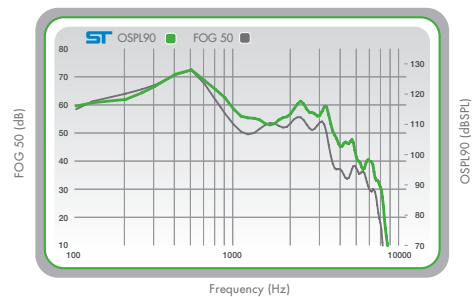
ANSI/IEC Data



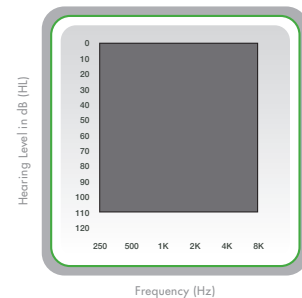
Measurement	Earhook		Thin Tube (Size 3+, Occluded)	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	133	138	129	132
HFA OSPL90 (dB SPL)	127	NA	113	NA
RTF OSPL90 (dB SPL)	NA	131	NA	118
Peak Gain (dB)	70	77	72	75
HFA Full-On Gain (dB)	66	NA	52	NA
RTF Full-On Gain (dB)	NA	74	NA	61
Frequency Range (Hz)	100 - 6000	100 - 6000	100 - 5800	100 - 5800
Reference Test Frequency (kHz)	NA	1.6	NA	1.6
HFA Frequencies (kHz)	1.0, 1.6, 2.5	NA	1.0, 1.6, 2.5	NA
Reference Test Gain (dB)	50	56	36	43
Harmonic Distortion				
500 Hz (%)	<4	<4	<1	<1
800 Hz (%)	<1	<1	<1	<1
1600 Hz (%)	<1	<1	<1	<1
Attack and Release Time (ANSI/IEC) – Test Mode				
Attack Time (ms)	22	5	22	5
Release Time 0.1s (ms)	5-150	5-250	5-150	5-250
Release Time 2.0s (ms)	5-150	5-250	5-150	5-250
Induction Coil Sensitivity				
HFA SPLITS (ANSI) (dB SPL)	112	NA	96	NA
MASL (IEC) (dB SPL)	NA	102	NA	91
ANSI/IEC Battery Current (mA)	1.8	1.8	1.8	1.8
Idle Current (mA)	1.5	1.5	1.5	1.5
Estimated Battery Life for 16-Hour Day				
13 Zinc Air (days)	9-12	9-12	9-12	9-12



OSPL90 (green) and Full-On Gain (gray) curves for the Axio ST Power BTE with Earhook.



OSPL90 (green) and Full-On Gain (gray) curves for the Axio ST Power BTE with Thin Tube.



Axio ST Power BTE fitting range.

Measurement Conditions and Recommendations

The data for Axio ST are obtained and performance is expressed according to ANSI S3.22 (2003), ANSI S3.7 (1995), ANSI C63.19 (2007), IEC 60118-7 (2005), IEC 60711 (1981), DIN 45605 (1989), and IEC 60118-0 (1983) with Amendment 1 (1994-01). The MicroTech proprietary Real Time Analyzer and the MicroTech Automated Design Verification Test System comprise the basic test equipment. Data may be subject to change with product refinement.

Because of the adaptive signal processing capabilities of Axio ST hearing instruments, the hearing instrument must be set to test mode to compare the actual performance of the hearing instrument with these specifications. Axio ST hearing instruments may be set to test mode with Inspire® by reading the hearing aid and selecting the "Hearing Aid Test" screen from the menu on the left side of the Inspire window, then selecting the "Full on Gain" button.