Quantum™ Pro

Micro BTE

Signature features

20 channels

SpeechZone using binaural spatial processing

SpeechZone™ is the new feature in Pro hearing instruments that automatically lets clients clearly enjoy conversations even in the toughest listening situations. SpeechZone, enabled by binaural spatial processing, is activated when the hearing instruments determine speech is coming from the front in a noisy environment - then both hearing instruments really zone in on speech

Automatic program with SmartFocus

Clients can experience superior automatic performance with the optimal blend of 3 listening environments plus a unique specialized treatment of music. In addition, the integration of SmartFocus™ further improves speech understanding in noise or provides optimal comfort automatically

Pinna Effect

This feature uses sophisticated calculations to recreate natural directionality

Natural Sound Balance

An adaptive feature to minimize artifacts that can occur when amplified sound combines in the ear canal with direct sound. Natural Sound Balance continuously monitors these sounds and makes precision adjustments to preserve a clear, balanced signal

Automatic Adaptation Manager

Allows for an automatic and smooth adjustment period for the client; providing the best possible first fit acceptance combined with maximum long-term benefit for speech understanding

Feedback manager

Feedback manager offers maximum usable gain by suppressing feedback transients before they become audible

Wireless technology

Binaural Phone – streams audio to the non-phone ear, allowing for binaural hearing while using a phone

DuoLink – program, volume and SmartFocus adjustments conducted on one hearing instrument are automatically transferred to the other ear

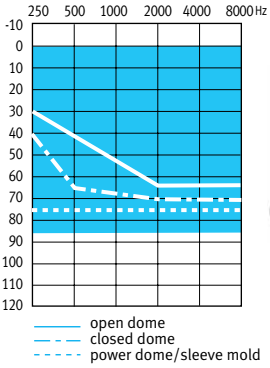
uDirect™ 2 (optional) – wireless interface between hearing instruments and Bluetooth® enabled devices (eg. cell phones)

uTV™ 2 (optional) – streams audio from a TV or audio source to the uDirect 2

Additional features

- Multiband adaptive directional microphone
- 3 manual + 3 wireless streaming programs
- AntiShock™
- Self learning
- MyMusic™
- Wind noise manager
- IntelliVent technology available on custom ear pieces
- Speech enhancement LD
- Noise reduction
- Data logging
- DAI through uDirect/uDirect 2
- Optional remote control
- Optional wireless programming with iCube

Fitting guides



Quantum Pro M

Quantum Pro micro BTE is suitable for fitting mild to severe hearing losses and can fit audiogram configurations ranging from reverse to precipitously sloping.

CE 0543 11-046 027-5694-02

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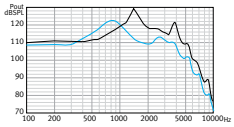
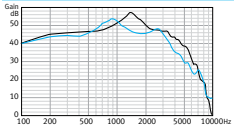
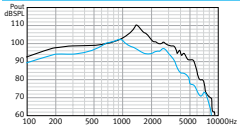
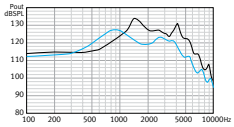
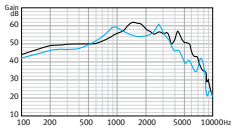
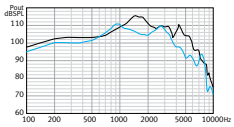
Quantum Pro micro BTE

ANSI 3.22 2003/IEC 118-7 2CC COUPLER TECHNICAL DATA

	Quantum Pro M micro BTE (slim tube)	Quantum Pro M micro BTE (earhook)
Reference test frequency - IEC 118-7 (kHz)	1.6	1.6
 **OSPL90**		
Maximum (dB SPL)	126	133
Nominal (dB SPL)	123	130
ANSI HFA (dB SPL)	114	120
at RTF (dB SPL)	111	125
 **Full on gain (input 50 dB SPL)**		
Maximum (dB)	54	57
ANSI HFA (dB)	48	50
at RTF (dB)	45	53
 **Basic frequency response (ANSI 2003)**		
Frequency range (Hz)	‹ 100-5600	‹ 100-6000
Reference test gain (dB)	37	43
Current drain at RTG (mA)	1.2	1.25
Typical battery life (h)	140	136
Equivalent input noise at RTG (dB SPL)	19	19
Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)	1/.5/.5	2/1/.5
Electromagnetic compatibility		
EMC immunity by ANSI c63.19-2001 EMC, omni	M4	M4

IEC 118-0 OES COUPLER TECHNICAL DATA

	Quantum Pro M micro BTE (slim tube)	Quantum Pro M micro BTE (earhook)
Reference test frequency - IEC 118-0 (kHz)	1.6	1.6
 **OSPL90**		
Maximum (dB SPL)	128	133
at RTF (dB SPL)	120	132
 **Full on gain (input 50 dB SPL)**		
Maximum (dB)	60	62
at RTF (dB)	54	61
 **Basic frequency response**		
Frequency range (DIN 45605) (Hz)	‹ 100-6000	‹ 100 -7100
Reference test gain (dB)	45	54
Current drain at RTG (mA)	1.2	1.2
Typical battery life (h)	140	140
Equivalent input noise at RTG (dB SPL)	19	19
Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)	1/.5/1	2/1/1
Electromagnetic compatibility		
EMC immunity by IEC 60118-13, field strength 75/50 V/m, omni IRIL low/high band (dB SPL)	25/26	25/26

LEGEND

— Quantum Pro micro BTE with slim tube

— Quantum Pro micro BTE with earhook

TEST CONDITIONS

Battery size: 312; Source: voltage 1.3 V

The measurements obtained with closed configuration using an HA-1 coupler (ANSI-3.7-1995) or occluded ear simulator (EN 60711, coupling arrangement according to fig.4 in the test standard)

Measurement data obtained with hearing aid set to linear, omni mode with all adaptive features disabled.

Domes should never be fit on patients with perforated eardrums, exposed middle ear cavities, or surgically altered ear canals. In the case of such a condition, we recommend use of a customized earmold.

Sound pressure level of these hearing aids exceeds 132 dB SPL.

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