Quantum™ Pro

13 BTE series

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

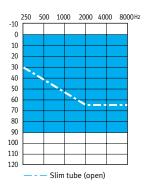
uDirect™ 2 (optional) – wireless interface between hearing instruments and Bluetooth® enabled devices (eg. cell phones)

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

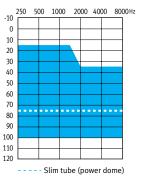
Additional features

- Multiband adaptive directional microphone
- 3 manual + 3 wireless streaming programs
- AntiShock™
- Self learning and LearnNow™
- MyMusic™
- Wind noise manager
- IntelliVent technology available on custom ear pieces
- Speech enhancement LD
- Noise reduction
- Data logging
- · Easy-t and telecoil
- Easy-DAI
- Optional remote controls
- Optional Smart Alert System
- Optional wireless programming with iCube

Fitting guides









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



Quantum Pro S Quantum Pro S Quantum Pro HP Quantum Pro HP Quantum Pro 13 BTE series slim tube (optional) (standard) (high power) slim tube (optional) ANSI 3.22 2003/IEC 118-7 2CC COUPLER TECHNICAL DATA Reference test frequency - IEC 118-7 (kHz) 2.5 2.5 1.6 1.6 OSPL90 Maximum (dB SPL) 124 129 133 130 Nominal (dB SPL) 127 122 126 130 ANSI HFA (dB SPL) 109 119 125 112 at RTF (dB SPL) 105 121 123 109 Full on gain (input 50 dB SPL) Maximum (dB) 53 60 70 65 ANSI HFA (dB) 40 51 64 50 at RTF (dB) 36 53 60 47 Basic frequency response (ANSI 2003) Frequency range (Hz) 100-6700 100-6700 100-6000 100-6900 Reference test gain (dB) 32 42 47 35 Current drain at RTG (mA) 1.3 1.3 1.3 1.3 Typical battery life (h) 240 240 240 240 Equivalent input noise at RTG (dB SPL) 20 19 19 20 Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) 1/1/1 2/2/1 3/1.5/1 1/1/1 Induction coil sensitivity (ANSI 2003, 31.6 mA/m) HFA SPLITS/STS-RSETS (dBSPL/dB) 90/0 103/0 107/0 93/0 Quantum S: mic at 70 dB SPL vs induction coil at 100 mA/m _ _ Mic _ Induction coil **Electromagnetic compatibility** EMC immunity by ANSI c63.19-2001 EMC, omni/telecoil M4/T4 M4/T4 M4/T4 M4/T4 IEC 118-0 OES COUPLER TECHNICAL DATA Reference test frequency - IEC 118-o (kHz) 2.5 1.6 1.6 2.5 OSPL90 Maximum (dB SPL) 126 131 135 131 at RTF (dB SPL) 119 130 130 124 Full on gain (input 50 dB SPL) Maximum (dB) 58 64 75 70 at RTF (dB) 50 63 67 60 **Basic frequency response** 100-5300 100-7000 100-6200 100-6700 Frequency range (DIN 45605) (Hz) Reference test gain (dB) 44 55 55 49 Current drain at RTG (mA) 1.3 1.3 1.3 1.3 Typical battery life (h) 240 240 240 240 Equivalent input noise at RTG (dB SPL) 12 19 19 12 Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) 2/2/1 3/3/1 4/2.5/1.5 2/2/1 Induction coil sensitivity at RTF (graph shown for 31.6 mA/m at RTG) (dB SPL) 105 114 108 116 Maximum (1 mA/m at full on gain) (dB SPL) 86 104 99 95 at RTF (1 mA/m at full on gain) (dB SPL) 81 94 99 91 **Electromagnetic compatibility** EMC immunity by IEC 60118-13, field strength 75/50 26/52 26/45 26/45 26/52 V/m, omni IRIL low/high band (dB SPL)

LEGEND

Quantum Pro S **Ouantum Pro HP** **TEST CONDITIONS**

Earhook: filtered; Battery size: 13; Source: voltage 1.3 V; Tubing: length 25 mm, inside diameter 1.93 mm

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.