Quantum™ 20

Micro BTE

Signature features

20 channels

Next generation automatic 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

Next generation feedback manager

Harnessing the power of Unitron's new Era[™] platform, the next generation feedback manager offers maximum usable gain by suppressing feedback transients before they become audible

Self learning

Capable of learning client preferences for SmartFocus and volume control in all programs

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 (optional) – Wireless interface between hearing instruments and Bluetooth® enabled devices (eg. cell phones)

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

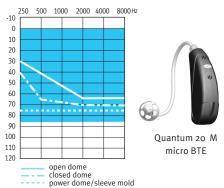
Remote control (optional)

Discreet remote with easy, straightforward control of essential features

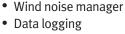
Additional features

- 3 manual + 3 wireless streaming programs
- IntelliVent technology available on earmolds and sleeve molds
- Multiband adaptive directional microphone
- AntiShock[™]
- MyMusic[™]
- Speech enhancement LD
- Noise reduction

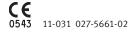
Fitting guides



Quantum 20 micro BTE is suitable for fitting mild to severe hearing losses and can fit audiogram configurations ranging from reverse to precipitously sloping.



- DAI through uDirect
- Optional wireless programming with iCube





Quantum 20 r	micro BTE	Quantum 20 M micro BTE (slim tube)	Quantum 20 M micro BTE (earhook)
ANSI 3.22 2003/IEC 118-7 2CC COUPLER TECHNICAL DATA			
	Reference test frequency - IEC 118-7 (kHz)	1.6	1.6
8097 110 110 90 80 80 100 200 500 1000 2000 5000 10000he	OSPL90		
	Maximum (dB SPL)	126	133
	Nominal (dB SPL)	123	130
	ANSI HFA (dB SPL)	114	120
	at RTF (dB SPL)	111	125
Gain dB 50	Full on gain (input 50 dB SPL)		
40 30 20 20 100 200 500 1000 2000 5000 10000Hz	Maximum (dB)	54	57
	ANSI HFA (dB)	48	50
	at RTF (dB)	45	53
80 80 500 500 1000 2000 5000 100001000010	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
	EMC immunity by ANSI c63.19-2001 EMC, omni	M4	M4
IEC 118-0 OES COU	JPLER TECHNICAL DATA		
	Reference test frequency - IEC 118-o (kHz)	1.6	1.6
alife 130 120 110 100 90	OSPL90		
	Maximum (dB SPL)	128	133
	at RTF (dB SPL)	120	132
80 100 200 500 1000 2000 5000 10000Hz			
60 50 50 40 30 30	Full on gain (input 50 dB SPL)		
	Maximum (dB)	60	62
	at RTF (dB)	54	61
10 200 500 1000 2000 5000 10000Hz			
dispression of the control of the co	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
	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 20 micro BTE with slim tube
- Quantum 20 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.

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