

Quantum²

Quantum² 20, Quantum² 16, Quantum² 10, Quantum² E
Micro CIC hearing aid series



Performance profile

	Quantum ² 20	Quantum ² 16	Quantum ² 10	Quantum ² E
Channels / bands	20	16	10	6
Processing types	WDRC and linear	WDRC and linear	WDRC and linear	WDRC and linear

Signature features

Automatic Program	Automatic 4	Automatic 3	Automatic 2	Manual
SmartFocus2	•	•		
SmartFocus			•	•
Automatic Adaptation Manager	•	•	•	•
Pinna Effect	•	•		

Features

Manual programs (with micro CIC remote)	Up to 3	Up to 3	Up to 3	Up to 4
Feedback manager	•	•	•	•
Natural Sound Balance	•	•	•	•
AntiShock	•	•	•	•
MyMusic	Automatic	•	•	•

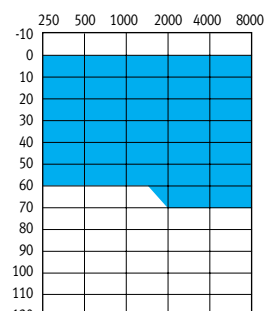
In all technology levels

Data logging, wind noise manager, IntelliVent technology and tinnitus masker
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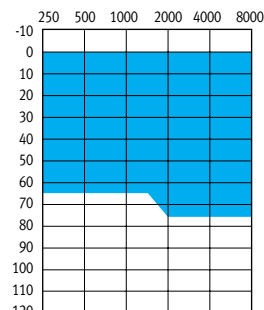
Accessories (optional)

Micro CIC remote	•	•	•	•
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Fitting guides

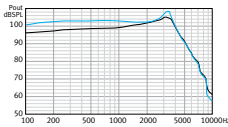
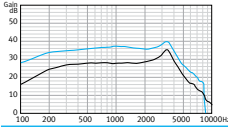
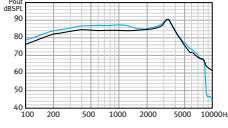


Slight power

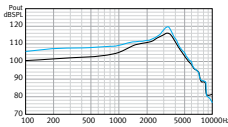
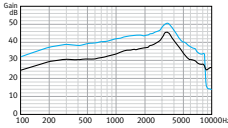
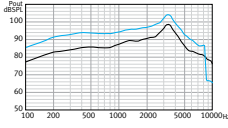


Moderate power

ANSI 3.22 2009/IEC 118-7 2005 2cc coupler technical data

Reference test frequency - IEC 118-7 (kHz)		1.6	1.6
		OSPL90	
Maximum (dB SPL)		108	112
Nominal (dB SPL)		105	109
HFA - OSPL90 (dB SPL)		101	103
at RTF (dB SPL)		101	103
		Full on gain (input 50 dB SPL)	
Maximum (dB)		35	40
HFA - FOG (dB)		28	37
at RTF (dB)		27	35
		Reference test setting (RTS)	
Frequency range (Hz)		100-8300	100-7900
Reference test gain (dB)		24	26
Current drain at RTS (mA) 10A		1.0	1.0
Typical battery life (h) 10A		100	100
Equivalent input noise at RTS (dB SPL)		19	19
Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)		2.5/2.5/2	1.5/1.5/1.5
Electromagnetic compatibility			
EMC immunity by ANSI C63.19-2001 EMC, omni		M4	M4

IEC 118-o OES coupler technical data

Reference test frequency - IEC 118-o (kHz)		1.6	1.6
		OSPL90	
Maximum (dB SPL)		116	120
at RTF (dB SPL)		110	111
		Full on gain (input 50 dB SPL)	
Maximum (dB)		46	50
at RTF (dB)		36	44
		Basic frequency response	
Frequency range (DIN 45605) (Hz)		100-8600	100-8200
Reference test gain (dB)		29	36
Current drain at RTG (mA) 10A		1.0	1.0
Typical battery life (h) 10A		100	100
Equivalent input noise at RTG (dB SPL)		19	19
Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)		3/3/2.5	2.5/2.5/2
Electromagnetic compatibility			
EMC immunity by IEC 60118-13, 2011 field strength 90/50/35 V/m, omni IRIL low/medium/high band (dB SPL)		32/30/32	32/30/32

Legend

— Quantum² S
 — Quantum² M

Test conditions

Battery size: 10A; Tubing: 4 mm; Source voltage: 1.3 V; Vent: closed at canal end

The hearing instrument set to Unitron TrueFit test settings.

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