Quantum™ E

ITE series

Signature features

6 channels

SmartFocus

Available within each manual program and is a fitter adjustable control for comfort or clarity

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

DuoLink – adjustments conducted on one hearing instrument are automatically transferred to the other ear

Additional features

- 4 manual programs
- Adaptive directional microphone
- AntiShock™
- MyMusic™
- Speech enhancement LD
- Noise reduction
- Wind noise manager
- Data logging
- Easy-t
- Optional Unitron remote control or Smart Control
- Optional Smart Alert™ System
- Optional wireless programming with iCube
- IntelliVent technology



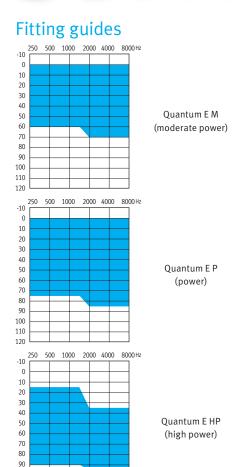
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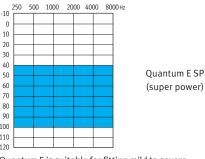












Quantum E is suitable for fitting mild to severe hearing losses and can fit audiogram configurations ranging from reverse to precipitously sloping.

Quantum E ITEs offer flexible ordering!

Wireless and directional microphone guide:

- Always wireless, always directional
- 312 Available any combination
- 10A Always non-wireless and omni microphone

Battery and style guide: S=Standard; O=Optional

Battery	FS	HS	CA	MC	CIC
13	S	0	0		
312	0	S	S	Omni	
10A	0	0	0	S	S





Quantum E l'	TE series	Quantum E M (moderate power)	Quantum E P (power)	Quantum E HP (high power)	Quantum E SF (super power)		
ANSI 3.22 2003/I	EC 118-7 2CC COUPLER TECHNICAL DATA	4					
	Reference test frequency - IEC 118-7 (kHz)	1.6	1.6	1.6	1.6		
Pout dBSPL	OSPL90						
110	Maximum (dB SPL)	112	117	122	130		
90	Nominal (dB SPL)	109	114	119	127		
80 70 100 200 500 1000 2000 5000 10000H	ANSI HFA (dB SPL)	103	109	114	120		
	at RTF (dB SPL)	103	109	113	127		
Gain 60 60 60 60 60 60 60 60 60 60 60 60 60	Full on gain (input 50 dB SPL)						
	Maximum (dB)	40	50	60	70		
	ANSI HFA (dB)	37	45	54	62		
	at RTF (dB)	35	43	53	70		
110 100 100 100 100 100 100 100 100 100	Basic frequency response (ANSI 2003)						
	Frequency range (Hz)	100-7500	100-7500	100-7100	100-5500		
	Reference test gain (dB)	26	32	37	43		
	current drain at RTG (mA) 10A/312/13	1.2/1.2/1.2	1.2/1.2/1.2	1.2/1.2/1.2	/1.2/1.2		
	Typical battery life (h) 10A/312/13	80/150/260	80/150/260	80/150/260	/150/260		
	Equivalent input noise at RTG (dB SPL)	19	19	19	19		
	Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)	1.5/1.5/1.0	1.5/1.5/1.0	1/1/1	1/1/1		
Pout dBSPL 110	Induction coil sensitivity (ANSI 2003, 31.6 mA/m)						
100 90 80 80 60 100 200 500 1000 2000 5000 10000ee	HFA SPLITS/STS (dB SPL/dB)	88/2	94/2	99/2	104/1		
	Quantum P: mic at 70 dB SPL vs. induction coil at 100 mA/m — Mic — Induction coil — 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 CO	OUPLER TECHNICAL DATA						
	Reference test frequency - IEC 118-0 (kHz)	1.6	1.6	1.6	1.6		
#S04 150 120 110 110 100	OSPL90						
	Maximum (dB SPL)	120	123	128	133		
	at RTF (dB SPL)	111	118	121	132		
90 80 100 200 500 1000 2000 5000 10000	tta						
Gain dB	Full on gain (input 50 dB SPL)						
60 50 40	Maximum (dB)	50	60	70	79		
	at RTF (dB)	44	52	62	76		
20 200 500 1000 2000 5000 10000	u-						
BOSPL 120	Basic frequency response						
110 100 90 70 100 200 500 1000 2000 5000 10000 ₁₆	Frequency range (DIN 45605) (Hz)	100-8200	100-8200	100-7500	100-5500		
	Reference test gain (dB)	36	43	46	57		
	Current drain at RTG (mA) 10A/312/13	1.2/1.2/1.2	1.2/1.2/1.2	1.2/1.2/1.2	/1.2/1.2		
	Typical battery life (h) 10A/312/13	80/150/260	80/150/260	80/150/260	/150/260		
	Equivalent input noise at RTG (dB SPL)	19	19	19	19		
	Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)	2.0/2.0/1.5	2.0/2.0/1.5	1.0/1.5/1.0	1.5/1.5/1		
Pout dBSPL 120	Induction coil sensitivity						
110	at RTF (graph shown for 31.6 mA/m at RTG) (dB SPL)	96	102	106	119		
90 80 70 100 200 500 1000 2000 5000 10000Hz	Maximum (1 mA/m at full on gain) (dB SPL)	83	92	102	110		
	at RTF (1 mA/m at full on gain) (dB SPL)	76	85	94	108		
	Electromagnetic compatibility						
	EMC immunity by IEC 60118-13, field strength 75/50	31/41	29/40	34/45	23/32		
	V/m, omni IRIL low/high band (dB SPL)	·	·	,	•		
LEGEND	V/m, omni IRIL low/high band (dB SPL) TEST CONDITIONS						

— Quantum E HP — Quantum E P Quantum E M

Tubing 7mm (2cc/OES coupler) – Quantum E M, Quantum E P, Quantum E HP.

Tubing 9 mm (2cc coupler), Tubing 5mm (OES coupler) - Quantum E SP.

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

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