Max™ 6 SP

BTE hearing instrument series

Performance profile

6 channels

Super power specific features

Power Adaptation Manager

Allows the gradual decrease of amplification over time. Starting from the frequency response clients expect, which can sometimes be excessive and above prescribed target, this feature will automatically, slowly and steadily reduce gain and MPO to a safer level to maximize speech intelligibility and long-term hearing health

Frequency compression

By shifting sounds away from areas where hearing is most damaged and compressing them into the audible range, clients experience a fuller range of sounds for improved awareness and speech intelligibility

SmartFocus SP

The performance of directional microphones, speech enhancement, noise reduction and gain have been purposely optimized and work synergistically in relation to one another to provide the best speech understanding or comfort for those with severe to profound hearing losses, without compromising awareness

Bass enhancer

Provides additional low frequency gain boost in one easy software control

Signature features

Automatic Program

Clients can experience superior automatic performance with the optimal blend of 2 listening environments

Feedback manager

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

Wireless technology

DuoLink – program and volume 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)

Noise reduction

Optional remote controls

Optional Smart Alert™ System

• Optional wireless programming

IntelliVent technology available on

Data logging

with iCube

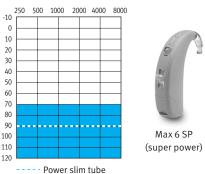
custom ear pieces

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

Additional features

- 3 manual + 3 wireless streaming programs
- Multiband adaptive directional
- AntiShock™
- Wind noise manager
- Easy-DAI
- Easy-t and telecoil
- MyMusic™
- Speech enhancement LD

Fitting guide



Max 6 SP is suitable for fitting severe to profound hearing losses and can fit audiogram configurations ranging from reverse to precipitously sloping.



ANSI 3.22 2003/IEC 118-7 2CC COUPLER TECHNICAL DATA Reference tost frequency - IEC 118-7 (bit 2) OSPL20 OSPL20 Maximum (6ft SPI) Maximum (6ft SPI) ANSI HTA (dis SPI) AIST (10ft SPI) AIS	Max 6 SP BTE	series	Max 6 SP power tube	Max 6 SP filtered earhook	Max 6 SP unfiltered earhook
Reference test frequency: IEC 118-7 (liktz) 1.6	ANSI 3.22 2003/IE	C 118-7 2CC COUPLER TECHNICAL DATA			
OSPL90			1.6	1.6	1.6
Maximum (dB SPL) Nominal (dB SPL) Nomina	Pout dBSPL 140				
Nominal (dB SPL) 139 133 139	130 120 110 100		142	135	142
AKSI HFA (dB SPL) 124 129 133 and RTF (dB SPL) 120 128 129 139 and RTF (dB SPL) 120 122 128 129 129 129 129 129 129 129 129 129 129			139		
Full on gain (input 50 dB SPL) Maximum (dB) AASI IHA (dB) Basac frequency response (ANSI 2003) Frequency range (tP) Frequency range (tP) Frequency range (tP) AASI IHA (dB) Basac frequency response (ANSI 2003) Frequency range (tP) AASI IHA (dB) AASI IHA (124	129	
Maximum (dB)			122	128	129
Maximum (dB)	66 80 50 50 40 40 40 40 40 40 40 40 40 40 40 40 40	Full on gain (input 50 dB SPL)			
at RTF (dB) at RT			82	75	82
Basic frequency rasponse (ANSI 2003) Frequency range (Hz) C100-5000 C100-5000 C100-5000 C100-4000 Reference test gain (dB) 47 52 56 Current drain at RTG (mA) 2.0 2.0 2.0 Typical battery life (h) 320 320 320 320 Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) 4/2/1 4/2/1 4/2/1 Mic at 70 dB SPL vs induction coil at 100 mA/m HFA SPUTS/STS-RSETS (dB SPL/dB) 108/1 113/1 117/1 HFA SPUTS/STS-RSETS (dB SPL/dB) 108/1 113/1 13/1 13/1 HFA SPUTS/STS-RSETS (dB SPL/dB) 108/1 13/1 13/1 13/1 HFA SPUTS/STS-RSETS (dB SPL/dB) 13/1 13/1 13		ANSI HFA (dB)	65	69	73
Frequency range (Hz) Reference test gain (dB) Reference test frequency (EC 118-0 (Mtz)) Reference test frequency (EC		at RTF (dB)	61	68	69
Frequency range (Hz) Reference test gain (dB) Reference test frequency (EC 118-0 (Mtz)) Reference test frequency (EC	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Basic frequency response (ANSI 2003)			
Current drain at RTG (mA) Typical battery life (h) Typical battery life (h) Typical battery life (h) Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) A/2/1 A/			< 100-5000	< 100-5000	< 100-4900
Typical battery life (h) 320 320 320 320 320 320 Equivalent input noise at RTG (dB SPL) 19 19 19 19 19 19 19 19 19 19 19 19 19			47	52	56
Typical battery life (h) 2320 320 320 320 320 320 320 320 320 32		Current drain at RTG (mA)	2.0	2.0	2.0
Total harmonic distortion at 500 Hz/800 Hz/800 Hz (%) 4/2/1 4/2/1 4/2/1 4/2/1 10duction coil sensitivity (ANSI 2003, 31.6 mA/m) HEA SPUTS/STS-RESTS (dB SPL/dB) 108/1 113/1 117/1 ****HEAD SPUTS/STS-RESTS (dB SPL/dB) 108/1 113/1 117/1 117/1 *****HEAD SPUTS/STS-RESTS (dB SPL/dB) 108/1 113/1 117/1 117/1 117/1		Typical battery life (h)	320	320	320
Induction coil sensitivity (ANSI 2003, 31.6 mA/m) HEA SPLITS/STS-RSETS (dB SPL/dB) 108/1 113/1 117/1 *********************************		Equivalent input noise at RTG (dB SPL)	19	19	19
High Spilits Strict Stri		Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)	4/2/1	4/2/1	4/2/1
HFA SPLITS/STS-RSETS (dB SPL/dB) Mic at 70 dB SPL vs induction coil at 100 mA/m	130 120 110 100 90	Induction coil sensitivity (ANSI 2003, 31.6 mA/m)			
Mic at 70 dB SPL vs induction coil at 100 mA/m Mic - Induction coil at 100 mA/m Mic - Induction coil M2/T2 M2/T2 M2/T2			108/1	113/1	117/1
EMC immunity by ANSI c63.19-2001 EMC, omni/telecoil M2/T2 M2/T2 M2/T2		mic at 70 dB SPLVS induction coil at 100 mA - Mic - Induction coil	./m		
Reference test frequency - IEC 118-0 (kHz)		Electromagnetic compatibility			
Reference test frequency - IEC 118-0 (kHz)		EMC immunity by ANSI c63.19-2001 EMC, omni/telecoil	M2/T2	M2/T2	M2/T2
DSPL90 Maximum (dB SPL) 144 139 144 139 144 139 144 139 144 139 145 136	IEC 118-0 OES CO	UPLER TECHNICAL DATA			
Maximum (dB SPL) 144 139 144 145 14 14 14 14 14 14 14 14 14 14 14 14 14		Reference test frequency - IEC 118-0 (kHz)	1.6	1.6	1.6
at RTF (dB SPL) Full on gain (input 50 dB SPL) Maximum (dB) at RTF (dB) Basic frequency response Frequency range (DIN 45605) (Hz) Reference test gain (dB) Current drain at RTG (mA) Typical battery life (h) Equivalent input noise at RTG (dB SPL) Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) Total	1507 140 130 120 120 100	OSPL90			
Full on gain (input 50 dB SPL) Maximum (dB) at RTF (dB) Basic frequency response Frequency range (DIN 45605) (Hz) Reference test gain (dB) Current drain aft RG (mA) Typical battery life (h) Typical battery life (h) Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) Figure the compatibility Electromagnetic compatibility EMC immunity by IEC 60118-13, field strength 75/50 V/m, omni IRIL low/high band (dB SPL) EMC immunity by IEC 60118-13, field strength 75/50 V/m, omni IRIL low/high band (dB SPL) EVALUATE: Total battery life (b) EMC immunity by IEC 60118-13, field strength 75/50 V/m, omni IRIL low/high band (dB SPL) EVALUATE: Lectromagnetic compatibility EMC immunity by IEC 60118-13, field strength 75/50 V/m, omni IRIL low/high band (dB SPL) EVALUATE: EVALUATE: Low/high band (dB SPL) EVALUATE: EVALU		Maximum (dB SPL)	144		
Full on gain (input 50 dB SPL) Maximum (dB) at RTF (dB) Basic frequency response Frequency range (DIN 45605) (Hz) Reference test gain (dB) Current drain at RTG (mA) Typical battery life (h) Equivalent input noise at RTG (dB SPL) Total harmonic distortion at 500 Hz/800 Hz/1600 Hz/800 Hz/800 Hz/1600 Hz/800 Hz/800 Hz/1600 Hz/800			- ' '	139	144
Maximum (dB) 85 80 85 at RTF (dB) 71 77 77 Frequency response Frequency range (DIN 45605) (Hz) (100-5000) (100-5000) (100-5000) Reference test gain (dB) 53 60 61 Current drain at RTG (mA) 1.3 1.3 1.3 Typical battery life (h) 500 500 500 Equivalent input noise at RTG (dB SPL) 19 19 19 Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) 5/3/2 5/3/2 5/3/2 Induction coil sensitivity at RTF (graph shown for 31.6 mA/m at RTG) (dB SPL) 115 123 124 Electromagnetic compatibility EMC immunity by IEC 6018-13, field strength 75/50 V/m, omni IRIL low/high band (dB SPL) 24/52 24/52 24/52	110	at RTF (dB SPL)			
at RTF (dB) at RTF (dB) 71 77 77 77 77 77 77 77 77 8asic frequency response Frequency range (DIN 45605) (Hz) Reference test gain (dB) Current drain at RTG (mA) Typical battery life (h) Equivalent input noise at RTG (dB SPL) Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) 100-5000 500 500 500 500 500 500	110 90 100 200 500 1000 2000 5000 10000kz				
Basic frequency response Frequency range (DIN 45605) (Hz) \$\tau100-5000 \tau100-5000 \tau1000-5000 \tau1000-5000 \tau1000-5000 \tau1000-5000 \tau1000-5000 \tau1000-5000 \tau1000-5000 \tau1000-5000 \tau1000000-5000 \tau1000000000000000000000000000000000000	110 100 9100 200 500 1000 2000 500 100000e	Full on gain (input 50 dB SPL)	130	135	136
Frequency range (DIN 45605) (Hz) Frequency range (DIN 45605) (Hz) Reference test gain (dB) Current drain at RTG (mA) Typical battery life (h) Equivalent input noise at RTG (dB SPL) Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) Induction coil sensitivity at RTF (graph shown for 31.6 mA/m at RTG) (dB SPL) Electromagnetic compatibility EMC immunity by IEC 60118-13, field strength 75/50 V/m, omni IRIL low/high band (dB SPL) (100-5000) (100-5	110 9500 200 500 1000 2000 5000 10000000 80 70	Full on gain (input 50 dB SPL) Maximum (dB)	130	135	136 85
Frequency range (DIN 45605) (Hz)	608 80 70 66 40	Full on gain (input 50 dB SPL) Maximum (dB)	130	135	136 85
Reference test gain (dB) Current drain at RTG (mA) Typical battery life (h) Equivalent input noise at RTG (dB SPL) Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) Induction coil sensitivity at RTF (graph shown for 31.6 mA/m at RTG) (dB SPL) Electromagnetic compatibility EMC immunity by IEC 60118-13, field strength 75/50 V/m, omni IRIL low/high band (dB SPL) Reference test gain (dB) 53 60 61 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.	6-86 80 70 50 50 50 50 50 50 50 50 50 50 50 50 50	Full on gain (input 50 dB SPL) Maximum (dB) at RTF (dB)	130	135	136 85
Current drain at RTG (mA) Typical battery life (h) Equivalent input noise at RTG (dB SPL) Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) Induction coil sensitivity at RTF (graph shown for 31.6 mA/m at RTG) (dB SPL) Electromagnetic compatibility EMC immunity by IEC 60118-13, field strength 75/50 V/m, omni IRIL low/high band (dB SPL) 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.	College	Full on gain (input 50 dB SPL) Maximum (dB) at RTF (dB) Basic frequency response	130 85 71	135 80 77	136 85 77
Typical battery life (h) 500 500 500 500 Equivalent input noise at RTG (dB SPL) 19 19 19 Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) 5/3/2	6-86 80 70 60 50 50 50 50 50 50 50 50 50 50 50 50 50	Full on gain (input 50 dB SPL) Maximum (dB) at RTF (dB) Basic frequency response Frequency range (DIN 45605) (Hz)	130 85 71 <100-5000	80 77 <100-5000	136 85 77 < 100-5000
Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) 5/3/2 5/3/2 5/3/2 Induction coil sensitivity at RTF (graph shown for 31.6 mA/m at RTG) (dB SPL) 115 123 124 Electromagnetic compatibility EMC immunity by IEC 60118-13, field strength 75/50 V/m, omni IRIL low/high band (dB SPL) 24/52 24/52	College	Full on gain (input 50 dB SPL) Maximum (dB) at RTF (dB) Basic frequency response Frequency range (DIN 45605) (Hz) Reference test gain (dB)	130 85 71 <100-5000 53	80 77 <100-5000 60	85 77 <100-5000 61
Induction coil sensitivity at RTF (graph shown for 31.6 mA/m at RTG) (dB SPL) Electromagnetic compatibility EMC immunity by IEC 60118-13, field strength 75/50 V/m, omni IRIL low/high band (dB SPL) I15 123 124 24/52 24/52 24/52	College	Full on gain (input 50 dB SPL) Maximum (dB) at RTF (dB) Basic frequency response Frequency range (DIN 45605) (Hz) Reference test gain (dB) Current drain at RTG (mA)	130 85 71 <100-5000 53 1.3	80 77 <100-5000 60 1.3	136 85 77 <100-5000 61 1.3
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at RTF (graph shown for 31.6 mA/m at RTG) (dB SPL) Electromagnetic compatibility EMC immunity by IEC 60118-13, field strength 75/50 V/m, omni IRIL low/high band (dB SPL) 24/52 24/52 24/52	College	Full on gain (input 50 dB SPL) Maximum (dB) at RTF (dB) Basic frequency response Frequency range (DIN 45605) (Hz) Reference test gain (dB) Current drain at RTG (mA) Typical battery life (h) Equivalent input noise at RTG (dB SPL)	130 85 71 <100-5000 53 1.3 500 19	80 77 <100-5000 60 1.3 500 19	136 85 77 <100-5000 61 1.3 500 19
EMC immunity by IEC 60118-13, field strength 75/50 V/m, omni IRIL low/high band (dB SPL) 24/52 24/52 24/52	6-86 80 80 90 90 90 90 90 90 90 90 90 90 90 90 90	Full on gain (input 50 dB SPL) Maximum (dB) at RTF (dB) Basic frequency response Frequency range (DIN 45605) (Hz) Reference test gain (dB) Current drain at RTG (mA) Typical battery life (h) Equivalent input noise at RTG (dB SPL) Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)	130 85 71 <100-5000 53 1.3 500 19	80 77 <100-5000 60 1.3 500 19	136 85 77 <100-5000 61 1.3 500 19
low/high band (dB SPL)	Call 80 80 80 90 90 90 90 90 90 90 90 90 90 90 90 90	Full on gain (input 50 dB SPL) Maximum (dB) at RTF (dB) Basic frequency response Frequency range (DIN 45605) (Hz) Reference test gain (dB) Current drain at RTG (mA) Typical battery life (h) Equivalent input noise at RTG (dB SPL) Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) Induction coil sensitivity	130 85 71 <100-5000 53 1.3 500 19 5/3/2	80 77 <100-5000 60 1.3 500 19 5/3/2	85 77 <100-5000 61 1.3 500 19 5/3/2
LEGEND TEST CONDITIONS	000 000 500 1000 0000 5000 100000000000	Full on gain (input 50 dB SPL) Maximum (dB) at RTF (dB) Basic frequency response Frequency range (DIN 45605) (Hz) Reference test gain (dB) Current drain at RTG (mA) Typical battery life (h) Equivalent input noise at RTG (dB SPL) Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) Induction coil sensitivity at RTF (graph shown for 31.6 mA/m at RTG) (dB SPL)	130 85 71 <100-5000 53 1.3 500 19 5/3/2	80 77 <100-5000 60 1.3 500 19 5/3/2	85 77 <100-5000 61 1.3 500 19 5/3/2
LEGEND TEST CONDITIONS	000 000 500 1000 0000 5000 100000000000	Full on gain (input 50 dB SPL) Maximum (dB) at RTF (dB) Basic frequency response Frequency range (DIN 45605) (Hz) Reference test gain (dB) Current drain at RTG (mA) Typical battery life (h) Equivalent input noise at RTG (dB SPL) Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) Induction coil sensitivity at RTF (graph shown for 31.6 mA/m at RTG) (dB SPL) Electromagnetic compatibility EMC immunity by IEC 60118-13, field strength 75/50 V/m, omni IRIL	130 85 71 <100-5000 53 1.3 500 19 5/3/2 115	80 77 <100-5000 60 1.3 500 19 5/3/2	136 85 77 <100-5000 61 1.3 500 19 5/3/2 124

Max 6 SPfiltered earhookMax 6 SP

unfiltered earhook

Battery size: 675; Source: voltage 1.3 V; Tubing: length 25 mm, inside diameter 1.93 mm; Power tube length: 1 Measurement data obtained with closed configuration using an HA-2 coupler (ANSI-3.7-1995) or occluded ear simulator (EN 60711, coupling arrangement according to fig.4 in the test standard), and set to linear, omni mode with all adaptive features disabled.

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.