Legato IX

Data Sheet

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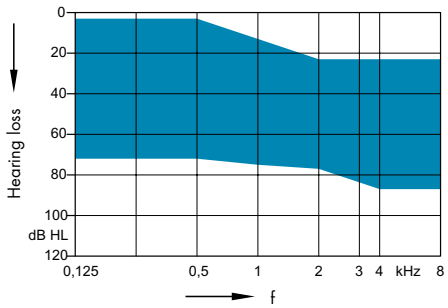
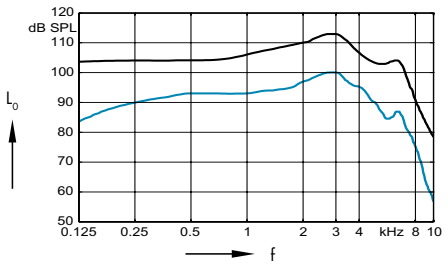
Legato IX · Technical Data

Output sound pressure level	2 ccm coupler	Ear simulator
at 1.6 kHz	–	118 dB SPL
Peak	113 dB SPL	124 dB SPL
HFA-OSPL 90	109 dB SPL	–
Gain		
Full on gain (FOG) at 1.6 kHz	–	53 dB
Full on gain (Peak)	50 dB	61 dB
HFA-FOG	46 dB	–
Reference test gain	33 dB	43 dB
Frequency, noise and directivity		
Frequency range	100-7800 Hz	130-8700 Hz
Equivalent input noise	21 dB SPL	21 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	3 / 3 / 2 %	5 / 6 / 4 %
AI-DI	–	
Inductive coil sensitivity		
MASL (1 mA/m) at 1.6 kHz	–	–
HFA MASL (1 mA/m)	–	–
HFA SPLITS (left/right)	–	–
RSETS (left/right)	–	–
Battery		
Battery voltage	1.3 V	
Battery current drain	1.1 mA	
Battery life (cell zinc air)	~60 h	
Battery life (rechargeable)	–	
IRIL IEC 118-13:2004 (bystander)		
800-960 MHz	<-6 dB SPL	
1400-2000 MHz	<-24 dB SPL	
ANSI C63.19	M4	

Legato IX · Basic Data

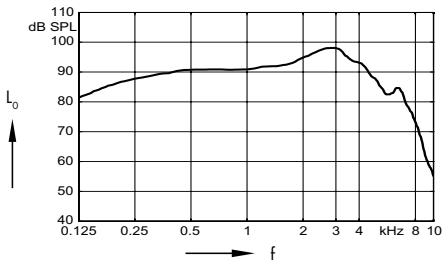


2 ccm coupler



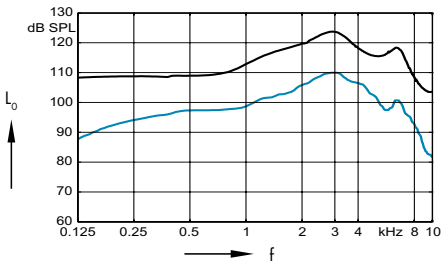
Output sound pressure level
(L_I = 90 dB)

Full on gain
(L_I = 50 dB)



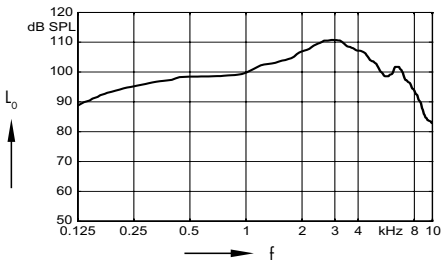
Frequency response
(L_I = 60 dB)

Ear simulator



Output sound pressure level
(L_I = 90 dB)

Full on gain
(L_I = 50 dB)



Basic acoustic response
(L_I = 60 dB)

Legato IX

Features and Accessories

TruCore Platform
- Wireless sync (P)
- Volume and control coupling (P)
- 48 signal processing channels
- 20 gain handles
- 6 hearing programs

Hardware
- 10 battery
- Wireless

TruCore Speech
- HD Bandwidth (10 kHz) (P)
- HD Directionality (P)
- Voice Ranger (P)
- Multichannel adaptive directional microphone (P)
- Automatic Directional Microphone (P)
- Bandwidth Compression (P)
- Feedback Preventer (P)

Sound Quality and Comfort
- Reverb Reducer (P)
- Sound Radiance (P)
- Music Enhancer (P)
- Adaptive streaming volume (P)
- Sound Smoothing (P)
- Wind Noise Cancellation (P)
- Noise Management (P)

Automatic Optimization
- Smart Automatic Equalizer (P)
- Smart Automatic Acclimatization (P)
- Automatic Classifier (P)
- Data Logging (P)

Accessories
- Smart Remote™
- Smart Connect™ (for Bluetooth connection with cell phones and stereo audio streaming)
- Smart Connect App (requires Smart Connect)
- Smart Remote App (provides the main functionality of the Smart Remote with just an app)
- Smart Transmitter (requires Smart Connect)
- Speech Connect (requires Smart Connect)
- Smart Power™ charger
- Wired programming with flex strip
- Wireless programming with ConnexxLink™

Performance Levels: P = Premium H = High S = Standard

Notes

Legato IX

Abbreviations and Standards

Abbreviations

The following abbreviations are used in this datasheet:

OSPL	Output Sound Pressure Level
HFA	High Frequency Average
FOG	Full-On Gain
MASL	Magneto Acoustical Sensitivity Level
SPLITS	Coupler SPL for an Inductive Telephone Simulator
RSETS	Relative Equivalent Telephone Sensitivity
AI-DI	Articulation Index - Directivity Index
IRIL	Input Related Interference Level
RTF	Reference Test Frequency

Standards

- All measurements with the 2 ccm coupler were performed according to ANSI S3.22-2009 and IEC 60118-7:2005 if applicable.
- All measurements with an ear simulator were performed according to IEC 118-0/A1 and to DIN 45605 (frequency range) if applicable.

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases and are subject to change without prior notice.
The required features should therefore be specified in each individual case at the time of conclusion of the respective contract.

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WARNING
Choking hazard posed by small parts.
- This instrument is not intended for the fitting of infants, children under 3 years and persons of mental incapacity.

Legal Manufacturer
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Subject to change without prior notice

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