



The Lumen 155i offers a suite of features designed for style, comfort and features wireless connectivity including;

- 312 battery
- · Wired or wireless programming
- Clear tube system or ear hook option

PRODUCT FEATURES

Smart Connectivity

• Wireless Bluetooth Low Energy (BLE)

Companion Microphone Accessory with Proprietary Audio Streaming

 Wireless accessory to aid in high noise environments and improve signal to noise ratio

• Proprietary audio streaming offers optimal power budget

Fourth-Generation Reliant™ Adaptive Feedback Canceling

 Fast adapting speed means less whistling, even when things move around the ear

 New aggressive setting to minimize feedback in the most challenging situations

Layered Noise Reduction™

 A state-of-the-art solution to environmental noise reduction

Wind Noise Suppression

- Detection system quickly recognizes when wind is present
- Automatically suppresses wind noise while preserving speech
- Improved single mic wind noise detection algorithm



Data is based on the Audion 16 amplifier.

PRODUCT FEATURES

PRODUCT FEATURES CONT.

16-channel Wide Dynamic Range Compression with Dynamic Contrast Detection™

- Three-mode adaptive time constants to optimize Wide Dynamic Range Compression performance in critical environments
- Compression ratio and threshold are independently adjustable in each channel
- · Maximum Power Output compression limiting is independently adjustable in each channel

Adaptive Directional Microphone Processing

- · Automatically switches from Omni to Directional when the environment changes
- Eliminates the need for a dedicated 'directional' user program needing manual activation

Voice Prompts

- Available for Start-up Program, Active Program, Minimum/Maximum Volume Control Position and Low Battery warning
- · Choose from the IntriCon standard prompts or create and load your own custom prompts

Nano Coating

- Aids in the protection against damage due to moisture
- Rated at IP 67

Digital Random Noise Generator for Tinnitus Therapy

- Digital generation of random noise gives a clean noise sound for masking use
- Can be used in mixed-mode applications: one program for masking and another program for hearing instrument use

Autosave for Program and VC Position

 Active program and current volume control position are saved to the Electrically Erasable Programmable Read-Only Memory (EEPROM) after program or volume control change

Data Logging

- Records average time per program and displays it in percentage of total hours and actual hours
- · Records number of battery changes and estimates average battery life in hours
- Additional data logged: Average volume control setting per program, user environment levels per program, usage log, and total hours used

Color Options:

• Beige, Bronze, Gray, Metallic Black, and Silver



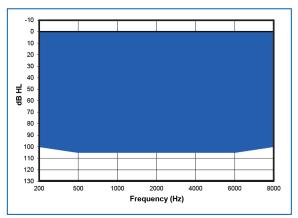
OMNI MICROPHONE

SPECIFICATION DATA

IEC 60118-7/ ANSI S3.22-2003 (2cc)	Thin Tube*	Earhook*
Peak OSPL90 (dB SPL)	122	128
HFA OSPL90 (dB SPL)	112	122
Peak FOG (dB)	50	59
HFA FOG (dB)	41	51
HFA Ref. Test Gain (dB)	34	45
Frequency Range: f1-f2	200 - 5900	200 - 7100
THD @ 500 Hz (%)	< 1	< 5
@ 800 Hz (%)	< 1	< 3
@ 1600 Hz (%)	< 1	< 1
Equivalent Input Noise (dB SPL)	< 17	< 22
Attack Time (msec)	10	10
Release Time (msec)	165	165
Supply Voltage (V) – STD 312	1.3	1.3
Induction Coil Sensitivity (dB SPL) **	79	105

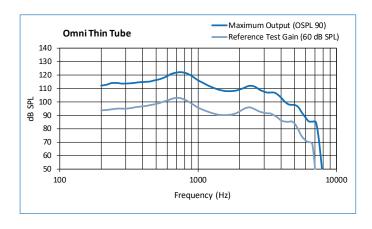
^{*}Technical specifications are typical

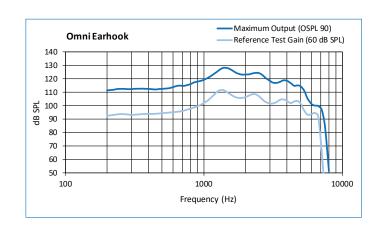
RECOMMENDED FITTING RANGE



Fitting range is subject to change due to person-to-person differences as well as their optimal tubing and tip selection.

RESPONSE CURVE





^{**}If specific model includes telecoil

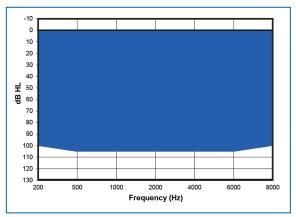
DIRECTIONAL MICROPHONE

SPECIFICATION DATA

IEC 60118-7/ ANSI S3.22-2003 (2cc)	Thin Tube*	Earhook*
Peak OSPL90 (dB SPL)	120	125
HFA OSPL90 (dB SPL)	109	118
Peak FOG (dB)	40	51
HFA FOG (dB)	33	42
HFA Ref. Test Gain (dB)	33	41
Frequency Range: f1-f2	200 - 6700	200 - 6700
THD @ 500 Hz (%)	< 2	< 7
@ 800 Hz (%)	< 1	< 2
@ 1600 Hz (%)	< 1	< 1
Equivalent Input Noise (dB SPL)	< 18	< 15
Attack Time (msec)	10	10
Release Time (msec)	200	200
Supply Voltage (V) – STD 312	1.3	1.3
Induction Coil Sensitivity (dB) **	80	90

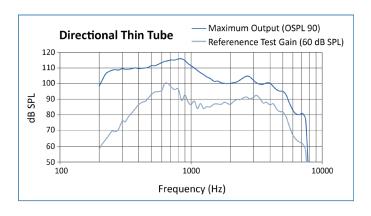
^{*}Technical specifications are typical

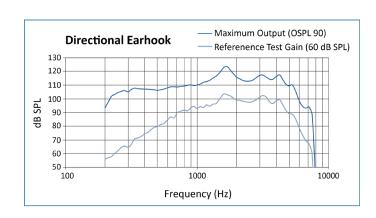
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RESPONSE CURVE





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PRODUCT FEATURES

FEATURES	Audion*16	$\underline{Audion}^{\text{\tiny{M}}} 16_{\text{\tiny{plus}}}$
Acous-TAP™	Single/Double	Single/Double/Enhanced
Adaptive Directionality	•	•
Audio Inputs, Number of	4	4
Compression Channels	16	16
Data Logging	•	Improved
Dual Biquad Filter	•	•
Dynamic Contrast Detection™	•	•
Reliant™ Adaptive Feedback Cancelling	4th Generation	4th Generation
Fixed Directional Processing	•	•
Gain Adjustment Bands	16	16
High Power Compatible	•	•
In-situ Tone Generator	•	•
Input Filter Low Cut	•	•
Layered Noise Reduction™	12-Channel	12-Channel
Low Battery Warning Indicator	Programmable On/Off	Programmable On/Off
Low-level Expansion	•	•
M+T Input Mode	For models with telecoil	For models with telecoil
Maximum Power Output Limiting	16-Channel	16-Channel
Program Switch Tones	Programmable On/Off	Programmable On/Off
Programmable Power-on Delay	•	•
Programmable Tone Generator	•	•
Programmable VC Range	•	•
Random Noise Generator	•	•
Tone Amplitude Adjustment	•	•
Tone Frequency Adjustment	•	•
Voice Prompts	•	•
Volume Control Type	Digital Toggle	Digital Toggle
Wide Dynamic Range Compression	•	•
Wind Noise Reduction	•	•
Hybrid Dimensions	.226" x .134"	.226" x .134"
Hybrid Mini Dimensions*	.210" x .116"	.210" x .116"

^{*}Mini Hybrids only have two inputs

Contact Information:

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This product may be covered by one or more of the following patents, as well as patents pending: 8,355,517; 8,605,927; 8,767,987; D671,218; 9,571,939; 9,832,578; 6,678,386; D525,617; D527,377; D567,232; D588,110; 7,519,193; 8,358,797.

