

# Feature Overview

## livioEdge AI livio AI livio

Livio Edge AI delivers the most advanced artificial intelligence technology possible in modern hearing aids, providing patients with smart, immediate adjustments for the most challenging environments. It's built on our award-winning Livio AI technology, which is now available across multiple technology tiers so more patients can benefit from the power of AI.

Livio hearing aids are a great option for patients who are not looking for AI capabilities but still want superior sound and other advanced features like Self Check and Reminders.

	Livio Edge AI Premium 2400	Livio Premium 2400	Livio AI/Livio Advanced 2000	Livio AI/Livio Select 1600	Livio AI/Livio Basic 1200	Livio AI/Livio Economy 1000
Platform:	Thrive	Thrive	Thrive	Thrive	Thrive	Thrive
Healthable Technology:						
Body Tracking	●		● (AI only)	● (AI only)	● (AI only)	● (AI only)
Brain Tracking	●		● (AI only)	● (AI only)	● (AI only)	
Fall Alert	●					
Intelligent Assistant:						
Thrive Assistant	●					
Translate	●					
Transcribe	●		● (AI only)			
Self Check (Auto Baseline)	●	●				
Auto On/Off	●	●	● (AI only)	● (AI only)	● (AI only)	● (AI only)
Reminders	●	●	● (AI only)	● (AI only)	● (AI only)	● (AI only)
Tap Control	●		● (AI only)	● (AI only)	● (AI only)	● (AI only)
Compatible App:	Thrive Hearing Control	Thrive Hearing Control	Thrive Hearing Control	Thrive Hearing Control	Thrive Hearing Control	Thrive Hearing Control
Telehealth Service:						
Hearing Care Anywhere	●	●	●	●	●	●

	Livio Edge AI Premium 2400	Livio Premium 2400	Livio AI/Livio Advanced 2000	Livio AI/Livio Select 1600	Livio AI/Livio Basic 1200	Livio AI/Livio Economy 1000		Livio Edge AI Premium 2400	Livio Premium 2400	Livio AI/Livio Advanced 2000	Livio AI/Livio Select 1600	Livio AI/Livio Basic 1200	Livio AI/Livio Economy 1000
HEARING REALITY PRO							HEARING REALITY PRO						
Sound Imaging: Channels   Bands	24	24	20	16	12	10	Directional Processing:						
Speech Optimization	●	●	●	●	●	●	Immersion	●	●	●	●	●	
Music Optimization:							Adaptive	●	●	●	●	●	
Music Adaptation	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	Dynamic	●	●	●	●	●	●
E2E Music Adaptation	●	●	●	●			Directional	●	●	●	●	●	●
Ear-to-Ear Technology:							Edge Mode	●					
E2E Wind Noise Management	●	●	●	●			Feedback Management	●	●	●	●	●	●
E2E Machine Noise Adaptation	●	●	●	●			Frequency Lowering	●	●	●	●	●	●
E2E Directionality	●	●	●	●			Tinnitus Technology	●	●	●	●	●	●
E2E Phone Streaming*	●	●	●	●			CROS System**	●	●	●	●	●	●
Sound Manager:							Telecoil***	●	●	●	●	●	●
Auto Music	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	2.4 GHz Accessory Compatibility	●	●	●	●	●	●
Quiet	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4							
Spatial Speech Enhancement	●	●	●	●									
Machine Noise	Up to 20 dB of reduction	Up to 20 dB of reduction	Up to 10 dB of reduction	Up to 5 dB of reduction	Up to 5 dB of reduction	Up to 5 dB of reduction							
Speech in Noise	Up to 20 dB of reduction	Up to 20 dB of reduction	Up to 8 dB of reduction	Up to 6 dB of reduction	Up to 6 dB of reduction	Up to 6 dB of reduction							
Transient Noise Reduction	Up to 15 dB of reduction	Up to 15 dB of reduction	Up to 9 dB of reduction	Up to 6 dB of reduction	Up to 6 dB of reduction	Up to 6 dB of reduction							
Wind	Up to 30 dB of reduction	Up to 30 dB of reduction	Up to 15 dB of reduction	Up to 7 dB of reduction	Up to 7 dB of reduction	Up to 7 dB of reduction							

•Hearing Reality Pro is exclusive to Livio Edge AI.  
 \*\*Available on RIC R, RIC 312 and BTE 13 styles only.  
 \*\*\*Available on ITE R, RIC R and BTE 13 styles only.



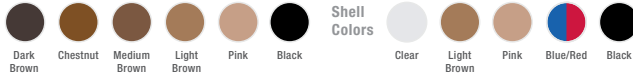
# ITE R

## IN-THE-EAR RECHARGEABLE

### Livio Edge AI 2400

#### Color Guide

Faceplate Colors



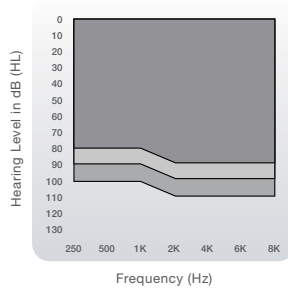
#### Patient Features

- Tinnitus Technology
- Wireless Connectivity
- Lithium-Ion Rechargeable
- Telecoil

#### Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Custom Charger
- Programmer

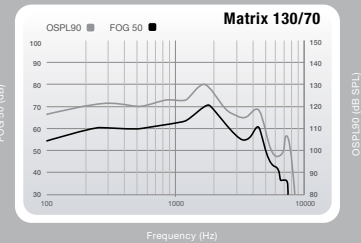
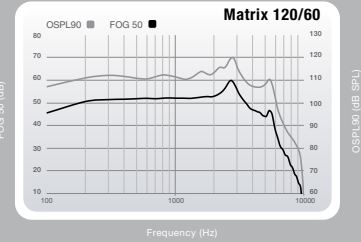
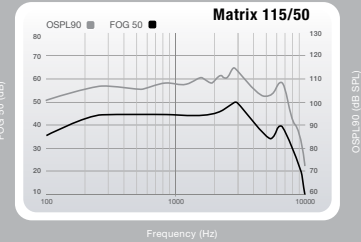
#### Fitting Range



- ITE R 50
- ITE R 60
- ITE R 70

#### Thrive Technology

- Embedded Sensors
- Natural User Interface Tap Control
- Additional Thrive app Feature Options



#### ITE R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	115-130	126-139
HFA OSPL90 (dB SPL)	110-123	N/A
RTF OSPL90 (dB SPL)	N/A	119-139
Peak Gain (dB)	50-70	62-80
HFA Full-On Gain (dB)	45-64	N/A
RTF Full-On Gain (dB)	N/A	55-78
<b>Frequency Range (Hz)</b>	<b>&lt;100-8300</b>	<b>&lt;100-9000</b>
Reference Test Freq. (kHz)	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	32-46	45-64
Equivalent Input Noise (dB)	<25	<25
<b>Harmonic Distortion</b>		
500 Hz (%)	<3	<3
800 Hz (%)	<3	<3
1600 Hz (%)	<3	<3

#### ITE R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Induction Coil Sensitivity</b>		
HFA SPLITS (ANSI) (dB SPL)	95-108	N/A
MASL (IEC) (dB SPL)	78-96	N/A
<b>Estimated Lithium-Ion Battery Life</b>		
Li-Ion Rechargeable Battery (hrs)	Up to 24 hours*	
<b>Tinnitus Therapy Stimulus</b>		
Max RMS Output (dB SPL)	87	
Weighted RMS Output Level (dB SPL)	87	
Max 1/3 Octave Output (dB SPL)	87	

\*Results will vary based on wireless usage.



# HS R

HALF SHELL RECHARGEABLE

## Livio Edge AI 2400

▶ Matrices: 110/140, 115/50, 120/60, 130/70

### Color Guide



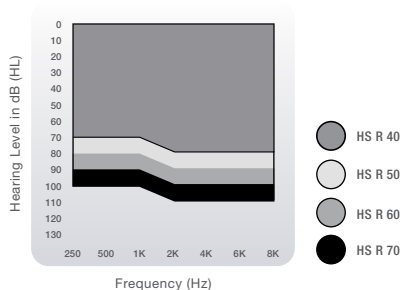
### Patient Features

- Tinnitus Technology
- Wireless Connectivity
- Lithium-Ion Rechargeable

### Accessories

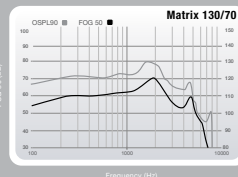
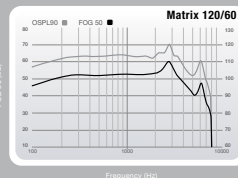
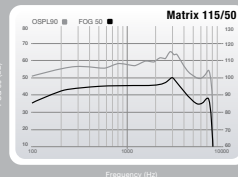
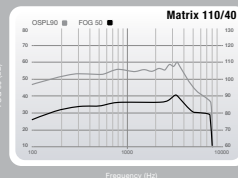
- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Custom Charger
- Programmer

### Fitting Range



### Thrive Technology

- Embedded Sensors
- Natural User Interface Tap Control
- Additional Thrive app Feature Options



### HS R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	110-130	121-139
HFA OSPL90 (dB SPL)	106-124	N/A
RTF OSPL90 (dB SPL)	N/A	115-139
Peak Gain (dB)	40-70	53-79
HFA Full-On Gain (dB)	36-63	N/A
RTF Full-On Gain (dB)	N/A	46-78
<b>Frequency Range (Hz)</b>	<100-9600	<100-9600
Reference Test Freq. (kHz)	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	28-47	39-64
Equivalent Input Noise (dB)	<25	<25
<b>Harmonic Distortion</b>		
500 Hz (%)	<3	<3
800 Hz (%)	<3	<3
1600 Hz (%)	<3	<3

### HS R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Estimated Lithium-Ion Battery Life</b>		
Li-Ion Rechargeable Battery (hrs)		Up to 24 hours*
<b>Tinnitus Therapy Stimulus</b>		
Max RMS Output (dB SPL)		87
Weighted RMS Output Level (dB SPL)		87
Max 1/3 Octave Output (dB SPL)		87

\*Results will vary based on wireless usage.



# ITC R

## IN-THE-CANAL RECHARGEABLE

### Livio Edge AI 2400

#### Faceplate Colors



Dark Brown



Chestnut



Medium Brown



Light Brown



Pink



Black

#### Shell Colors



Clear



Light Brown



Pink



Blue/Red



Black

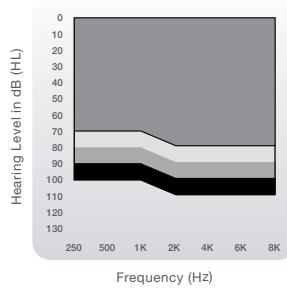
#### Patient Features

- Tinnitus Technology
- Wireless Connectivity
- Lithium-Ion Rechargeable

#### Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Custom Charger
- Programmer

#### Fitting Range



ITC R 40

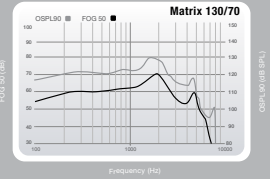
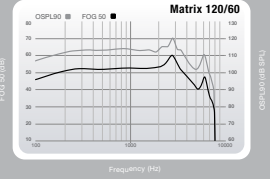
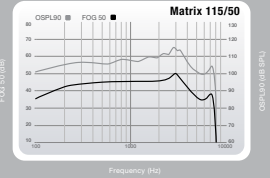
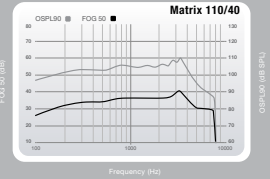
ITC R 50

ITC R 60

ITC R 70

#### Thrive Technology

- Embedded Sensors
- Natural User Interface Tap Control
- Additional Thrive app Feature Options



#### ITC R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	110-130	121-139
HFA OSPL90 (dB SPL)	106-124	N/A
RTF OSPL90 (dB SPL)	N/A	115-139
Peak Gain (dB)	40-70	53-79
HFA Full-On Gain (dB)	36-63	N/A
RTF Full-On Gain (dB)	N/A	46-78
<b>Frequency Range (Hz)</b>	<b>&lt;100-9600</b>	<b>&lt;100-9600</b>
Reference Test Freq. (kHz)	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	28-47	39-64
Equivalent Input Noise (dB)	<25	<25
<b>Harmonic Distortion</b>		
500 Hz (%)	<3	<3
800 Hz (%)	<3	<3
1600 Hz (%)	<3	<3

#### ITC R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Estimated Lithium-Ion Battery Life</b>		
Li-Ion Rechargeable Battery (hrs)	Up to 24 hours*	
<b>Tinnitus Therapy Stimulus</b>		
Max RMS Output (dB SPL)	87	
Weighted RMS Output Level (dB SPL)	87	
Max 1/3 Octave Output (dB SPL)	87	

\*Results will vary based on wireless usage.



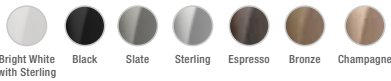
# RIC R

## RECEIVER-IN-CANAL RECHARGEABLE

### Livio Edge AI 2400

#### Color Guide

##### Standard Colors



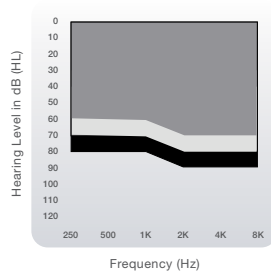
#### Patient Features

- Tinnitus Technology
- Wireless Connectivity
- CROS System
- Lithium-Ion Rechargeable
- Telecoil
- Dual Radio (2.4 GHz + NFMI) Ear-to-Ear Streaming

#### Accessories

- TV
- Remote Microphone + Remote
- Mini Remote Microphone
- Table Microphone
- Standard Charger
- Mini Turbo Charger
- Programmer

#### Fitting Range

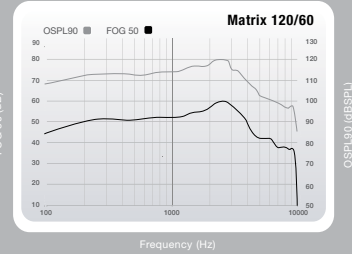
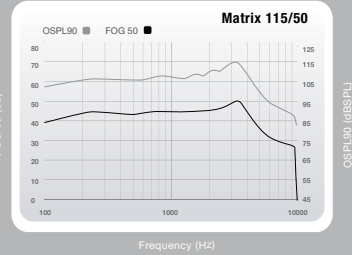
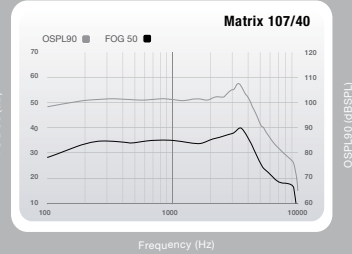


- RIC R 40
- RIC R 50
- RIC R 60

#### Thrive Technology

- Embedded Sensors
- Natural User Interface Tap Control
- Additional Thrive app Feature Options

▶ Matrices: 107/40, 115/50, ▶ Battery Size: Encased 312 120/60



	40 Gain Data		50 Gain Data		60 Gain Data	
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Measurement	40 Gain Data		50 Gain Data		60 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	107	120	115	127	120	131
HFA OSPL90 (dB SPL)	102	N/A	109	N/A	117	N/A
RTF OSPL90 (dB SPL)	N/A	112	N/A	119	N/A	127
Peak Gain (dB)	40	52	50	63	60	71
HFA Full-On Gain (dB)	35	N/A	45	N/A	56	N/A
RTF Full-On Gain (dB)	N/A	43	N/A	55	N/A	65
Frequency Range (Hz)	<100-9400	<100-9400	<100-9600	<100-9600	<100-9200	<100-9600
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	25	36	32	44	40	52
Equivalent Input Noise (dB)	26	26	26	26	26	26
<b>Harmonic Distortion</b>						
500 Hz (%)	<3	<3	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3	<3	<3

	40 Gain Data		50 Gain Data		60 Gain Data	
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Measurement	40 Gain Data		50 Gain Data		60 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Induction Coil Sensitivity</b>						
HFA SPLITS (ANSI) (dB SPL)	83	N/A	89	N/A	97	N/A
MASL (IEC) (dB SPL)	64	N/A	75	N/A	84	N/A
<b>Estimated Lithium-Ion Battery Life</b>						
Li-Ion Rechargeable Battery (hrs)	Up to 24 hours*		Up to 24 hours*		Up to 24 hours*	
<b>Tinnitus Therapy Stimulus</b>						
Max RMS Output (dB SPL)	87		87		87	
Weighted RMS Output Level (dB SPL)	87		87		87	
Max 1/3 Octave Output (dB SPL)	87		87		87	

\*Results will vary based on wireless usage.



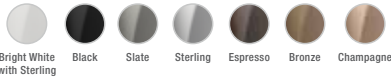
# RIC R AP

RECEIVER-IN-CANAL RECHARGEABLE Absolute Power

## Livio Edge AI 2400

### Color Guide

Standard Colors



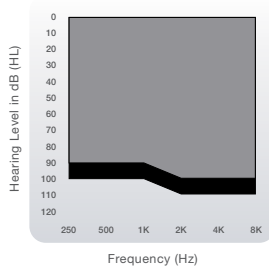
### Patient Features

- Tinnitus Technology
- Wireless Connectivity
- CROS System
- Lithium-Ion Rechargeable
- Telecoil
- Dual Radio (2.4 GHz + NFMI)
- Ear-to-Ear Streaming

### Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Standard Charger
- Mini Turbo Charger
- Programmer

### Fitting Range



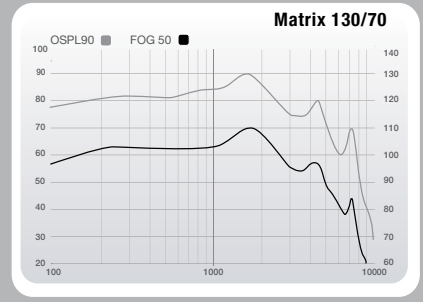
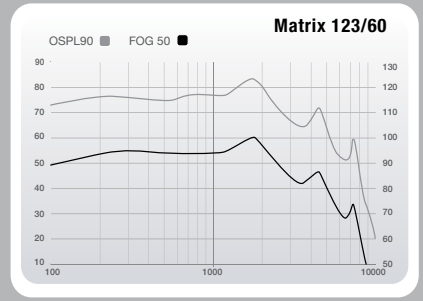
- RIC R 60 AP
- RIC R 70 AP

### Thrive Technology

- Embedded Sensors
- Natural User Interface Tap Control
- Additional Thrive app Feature Options

▶ Matrices: 123/60, 130/70

▶ Battery Size: Encased 312



Measurement	60 Gain Data		70 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	123	133	130	140
HFA OSPL90 (dB SPL)	117	N/A	124	N/A
RTF OSPL90 (dB SPL)	N/A	130	N/A	139
Peak Gain (dB)	60	70	70	81
HFA Full-On Gain (dB)	54	N/A	65	N/A
RTF Full-On Gain (dB)	N/A	66	N/A	78
<b>Frequency Range (Hz)</b>	<b>&lt;100-5500</b>	<b>&lt;100-5700</b>	<b>&lt;100-5800</b>	<b>&lt;100-5700</b>
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	40	55	47	64
Equivalent Input Noise (dB)	26	26	26	26
<b>Harmonic Distortion</b>				
500 Hz (%)	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3

Measurement	60 Gain Data		70 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Induction Coil Sensitivity</b>				
HFA SPLITS (ANSI) (dB SPL)	97	N/A	103	N/A
MASL (IEC) (dB SPL)	83	N/A	93	N/A
<b>Estimated Lithium-Ion Battery Life</b>				
Li-Ion Rechargeable Battery (hrs)	Up to 24 hours*		Up to 24 hours*	
<b>Tinnitus Therapy Stimulus</b>				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

\*Results will vary based on wireless usage.



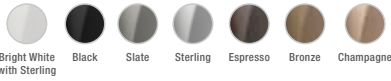
# RIC 312

RECEIVER-IN-CANAL

Livio Edge AI 2400

## Color Guide

Standard Colors



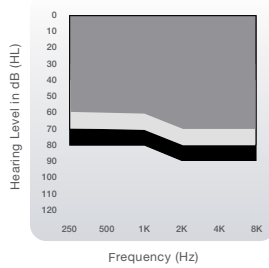
## Patient Features

- Tinnitus Technology
- Wireless Connectivity
- CROS System
- Dual Radio (2.4 GHz + NFM)
- Ear-to-Ear Streaming

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Programmer

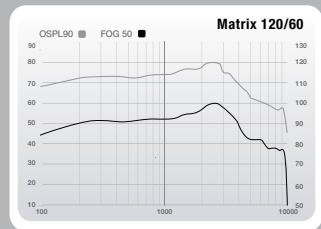
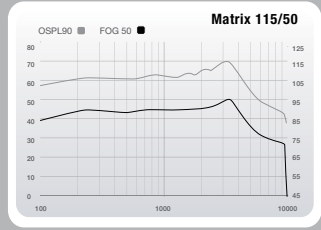
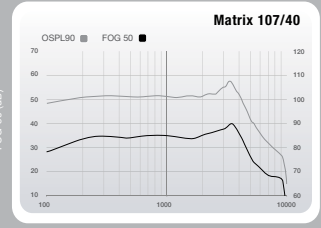
## Fitting Range



- RIC 312 40
- RIC 312 50
- RIC 312 60

## Thrive Technology

- Embedded Sensors
- Natural User Interface Tap Control
- Additional Thrive app Feature Options



Measurement	40 Gain Data		50 Gain Data		60 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	107	120	115	127	120	131
HFA OSPL90 (dB SPL)	102	N/A	109	N/A	117	N/A
RTF OSPL90 (dB SPL)	N/A	112	N/A	119	N/A	127
Peak Gain (dB)	40	52	50	63	60	71
HFA Full-On Gain (dB)	35	N/A	45	N/A	56	N/A
RTF Full-On Gain (dB)	N/A	43	N/A	55	N/A	65
Frequency Range (Hz)	<100-9400	<100-9400	<100-9600	<100-9600	<100-9200	<100-9600
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	25	36	32	44	40	52
Equivalent Input Noise (dB)	26	26	26	26	26	26
<b>Harmonic Distortion</b>						
500 Hz (%)	<3	<3	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3	<3	<3

Measurement	40 Gain Data		50 Gain Data		60 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
ANSI/IEC Battery Current (mA)	1.8*	1.7*	1.9*	1.8*	2.1*	2.0*
Idle Current (mA)	1.7*	1.7*	1.7*	1.7*	1.8*	1.9*
<b>Estimated Battery Life for 16-Hour Day</b>						
312 Zinc Air (days)	4-7*	4-7*	4-7*	4-7**	4-7*	4-7*
<b>Tinnitus Therapy Stimulus</b>						
Max RMS Output (dB SPL)	87		87		87	
Weighted RMS Output Level (dB SPL)	87		87		87	
Max 1/3 Octave Output (dB SPL)	87		87		87	

\*Results will vary based on wireless usage.



# RIC 312 AP

RECEIVER-IN-CANAL Absolute Power

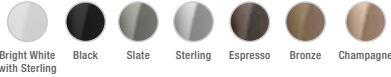
## Livio Edge AI 2400

▶ Matrices: 123/60, 130/70

▶ Battery Size: 312

### Color Guide

Standard Colors



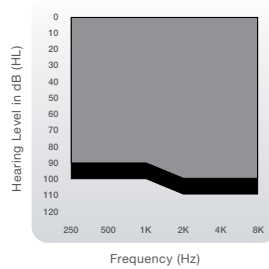
### Patient Features

- Tinnitus Technology
- Wireless Connectivity
- CRÖS System
- Dual Radio (2.4 GHz + NFM)
- Ear-to-Ear Streaming

### Accessories

- TV
- Remote Microphone + Remote
- Mini Remote Microphone
- Table Microphone
- Programmer

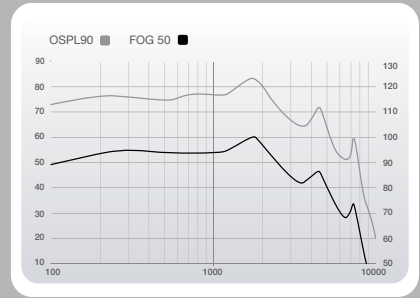
### Fitting Range



- RIC 312 60 AP
- RIC 312 70 AP

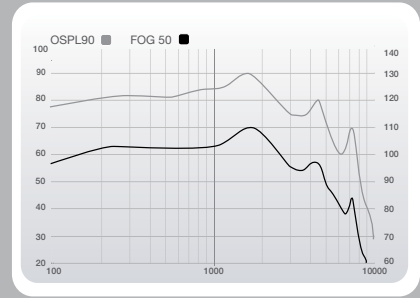
### Thrive Technology

- Embedded Sensors
- Natural User Interface Tap Control
- Additional Thrive app Feature Options



FOG 50 (dB)

OSPL90 (dB SPL)



FOG 50 (dB)

OSPL90 (dB SPL)

### 60 Gain Data

### 70 Gain Data

### 60 Gain Data

### 70 Gain Data

#### Measurement

Measurement	ANSI/IEC 2cc Coupler		ANSI/IEC 2cc Coupler	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	123	133	130	140
HFA OSPL90 (dB SPL)	117	N/A	124	N/A
RTF OSPL90 (dB SPL)	N/A	130	N/A	139
Peak Gain (dB)	60	70	70	81
HFA Full-On Gain (dB)	54	N/A	65	N/A
RTF Full-On Gain (dB)	N/A	66	N/A	78
<b>Frequency Range (Hz)</b>	<b>&lt;100-5500</b>	<b>&lt;100-5700</b>	<b>&lt;100-5800</b>	<b>&lt;100-5700</b>
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	40	55	47	64
Equivalent Input Noise (dB)	26	26	26	26

#### Harmonic Distortion

500 Hz (%)	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3

#### Measurement

Measurement	ANSI/IEC 2cc Coupler		ANSI/IEC 2cc Coupler	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
ANSI/IEC Battery Current (mA)	1.7*	1.7*	1.9*	1.8*
Idle Current (mA)	1.7*	1.7*	1.7*	1.7*
<b>Estimated Lithium-Ion Battery Life</b>				
312 Zinc Air (days)	4-7*	4-7*	4-7*	4-7*
<b>Tinnitus Therapy Stimulus</b>				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

\*Results will vary based on wireless usage.





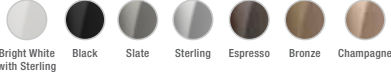
# mRIC 312

RECEIVER-IN-CANAL

Livio Edge AI 2400

## Color Guide

Standard Colors



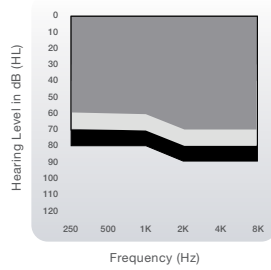
## Patient Features

- Tinnitus Technology
- Wireless Connectivity

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Programmer

## Fitting Range



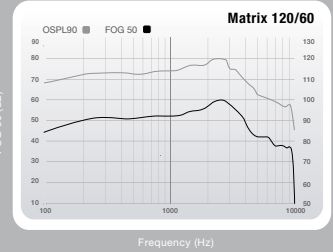
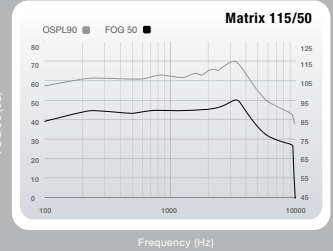
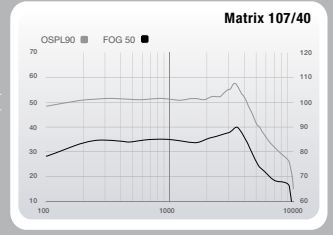
- mRIC 312 40
- mRIC 312 50
- mRIC 312 60

## Thrive Technology

- Embedded Sensors
- Natural User Interface Tap Control
- Additional Thrive app Feature Options

▶ Matrices: 107/40, 115/50, 120/60

▶ Battery Size: 312



40 Gain Data

Measurement	ANSI/IEC 2cc Coupler		ANSI/IEC 2cc Coupler		ANSI/IEC 2cc Coupler	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	107	120	115	127	120	131
HFA OSPL90 (dB SPL)	102	N/A	109	N/A	117	N/A
RTF OSPL90 (dB SPL)	N/A	112	N/A	119	N/A	127
Peak Gain (dB)	40	52	50	63	60	71
HFA Full-On Gain (dB)	35	N/A	45	N/A	56	N/A
RTF Full-On Gain (dB)	N/A	43	N/A	55	N/A	65
Frequency Range (Hz)	<100-9400	<100-9400	<100-9600	<100-9600	<100-9200	<100-9600
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	25	36	32	44	40	52
Equivalent Input Noise (dB)	26	26	26	26	26	26
<b>Harmonic Distortion</b>						
500 Hz (%)	<3	<3	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3	<3	<3

40 Gain Data

Measurement	ANSI/IEC 2cc Coupler		ANSI/IEC 2cc Coupler		ANSI/IEC 2cc Coupler	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
ANSI/IEC Battery Current (mA)	1.8*	1.7*	1.9*	1.8*	2.1*	2.0*
Idle Current (mA)	1.7*	1.7*	1.7*	1.7*	1.8*	1.9*
<b>Estimated Battery Life for 16-Hour Day</b>						
312 Zinc Air (days)	4-7*	4-7*	4-7*	4-7*	4-7*	4-7*
<b>Tinnitus Therapy Stimulus</b>						
Max RMS Output (dB SPL)	87		87		87	
Weighted RMS Output Level (dB SPL)	87		87		87	
Max 1/3 Octave Output (dB SPL)	87		87		87	

\*Results will vary based on wireless usage.

Livio Edge AI



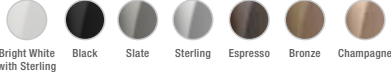
# mRIC 312 AP

RECEIVER-IN-CANAL Absolute Power

Livio Edge AI 2400

## Color Guide

Standard Colors



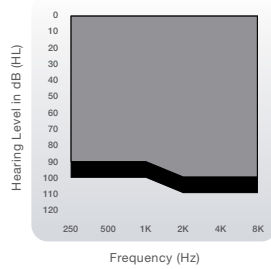
## Patient Features

- Tinnitus Technology
- Wireless Connectivity

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Programmer

## Fitting Range



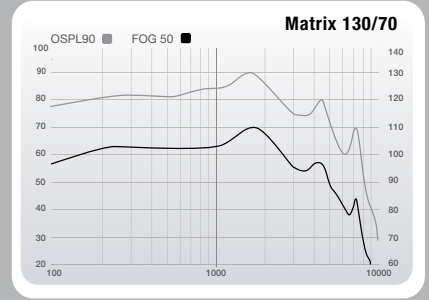
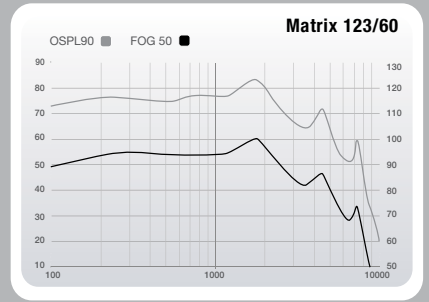
- mRIC 312 60 AP
- mRIC 312 70 AP

## Thrive Technology

- Embedded Sensors
- Natural User Interface Tap Control
- Additional Thrive app Feature Options

▶ Matrices: 123/60, 130/70

▶ Battery Size: 312



Measurement	60 Gain Data		70 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	123	133	130	140
HFA OSPL90 (dB SPL)	117	N/A	124	N/A
RTF OSPL90 (dB SPL)	N/A	130	N/A	139
Peak Gain (dB)	60	70	70	81
HFA Full-On Gain (dB)	54	N/A	65	N/A
RTF Full-On Gain (dB)	N/A	66	N/A	78
<b>Frequency Range (Hz)</b>	<b>&lt;100-5500</b>	<b>&lt;100-5700</b>	<b>&lt;100-5800</b>	<b>&lt;100-5700</b>
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	40	55	47	64
Equivalent Input Noise (dB)	26	26	26	26
<b>Harmonic Distortion</b>				
500 Hz (%)	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3

Measurement	60 Gain Data		70 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
ANSI/IEC Battery Current (mA)	1.7*	1.7*	1.9*	1.8*
Idle Current (mA)	1.7*	1.7*	1.7*	1.7*
<b>Estimated Lithium-Ion Battery Life</b>				
312 Zinc Air (days)	4-7*	4-7*	4-7*	4-7*
<b>Tinnitus Therapy Stimulus</b>				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

\*Results will vary based on wireless usage.



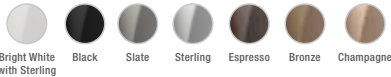
# BTE 13

BEHIND-THE-EAR

Livio Edge AI 2400

## Color Guide

Standard Colors



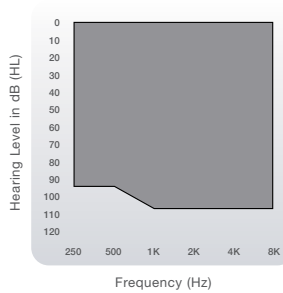
## Patient Features

- Tinnitus Technology
- Wireless Connectivity
- CROS System
- Telecoil
- Dual Radio (2.4 GHz + NFMI)
- Ear-to-Ear Streaming

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Programmer

## Fitting Range



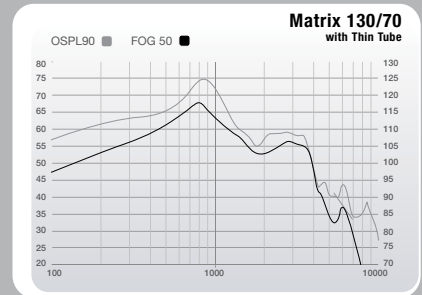
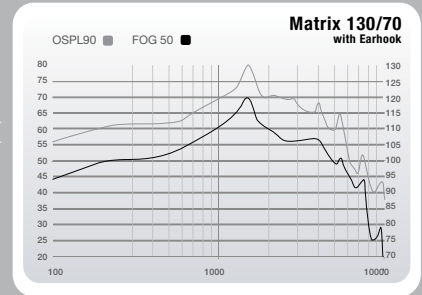
BTE 13 70

## Thrive Technology

- Embedded Sensors
- Natural User Interface Tap Control
- Additional Thrive app Feature Options

Matrix: 130/70

Battery Size: 13



## Measurement

Measurement	Earhook		Thin Tube (Size 3, Occluded)	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	130	136	124	129
HFA OSPL90 (dB SPL)	122	N/A	112	N/A
RTF OSPL90 (dB SPL)	N/A	134	N/A	114
Peak Gain (dB)	70	76	68	73
HFA Full-On Gain (dB)	62	N/A	57	N/A
RTF Full-On Gain (dB)	N/A	73	N/A	61
<b>Frequency Range (Hz)</b>	<b>&lt;100-7600</b>	<b>&lt;100-7800</b>	<b>&lt;100-4600</b>	<b>&lt;100-6800</b>
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	45	59	35	39
Equivalent Input Noise (dB)	24	18	29	29
<b>Harmonic Distortion</b>				
500 Hz (%)	<3	<3	<3	<3
800 Hz (%)	<5	<5	<3	<3
1600 Hz (%)	<3	<3	<3	<3

## Measurement

Measurement	Earhook		Thin Tube (Size 3, Occluded)	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Induction Coil Sensitivity</b>				
HFA SPLITS (ANSI) (dB SPL)	101	N/A	91	N/A
MASL (IEC) (dB SPL)	92	N/A	88	N/A
ANSI/IEC Battery Current (mA)	1.9'	1.8'	1.9'	1.8'
Idle Current (mA)	1.7'	1.7'	1.7'	1.7'
<b>Estimated Battery Life for 16-Hour Day</b>				
312 Zinc Air (days)	7-11'	7-11'	7-11'	7-11'
<b>Tinnitus Therapy Stimulus</b>				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

\*Results will vary based on wireless usage.

Livio Edge AI

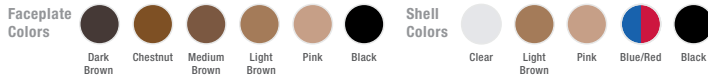


# ITE R

IN-THE-EAR RECHARGEABLE

Livio AI 2000 | 1600  
Livio 2400 | 2000 | 1600

## Color Guide



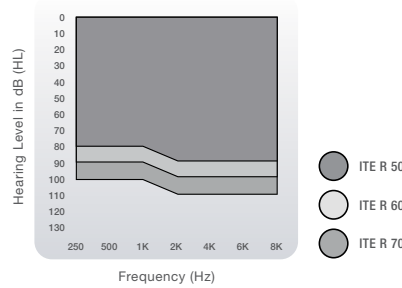
## Patient Features

- Tinnitus Technology
- Wireless Connectivity
- Lithium-Ion Rechargeable
- Telecoil

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Custom Charger
- Programmer

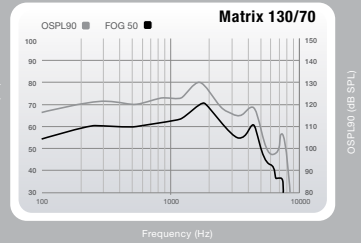
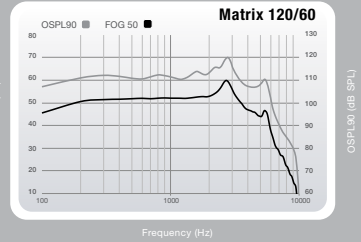
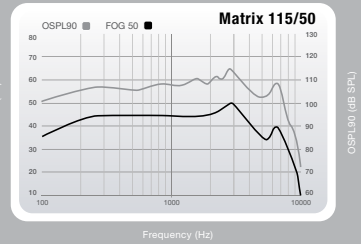
## Fitting Range



## Thrive Technology

- Embedded Sensors\*
- Natural User Interface Tap Control\*
- Additional Thrive app Feature Options

▶ Matrices: 115/50, 120/60, 130/70



## ITE R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	115-130	126-139
HFA OSPL90 (dB SPL)	110-123	N/A
RTF OSPL90 (dB SPL)	N/A	119-139
Peak Gain (dB)	50-70	62-80
HFA Full-On Gain (dB)	45-64	N/A
RTF Full-On Gain (dB)	N/A	55-78
<b>Frequency Range (Hz)</b>	<b>&lt;100-8300</b>	<b>&lt;100-9000</b>
Reference Test Freq. (kHz)	N/A	1.6
HFA Frequencies (kHz)	1.0, 1.6, 2.5	N/A
Reference Test Gain (dB)	32-46	45-64
Equivalent Input Noise (dB)	<25	<25
<b>Harmonic Distortion</b>		
500 Hz (%)	<3	<3
800 Hz (%)	<3	<3
1600 Hz (%)	<3	<3

## ITE R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Induction Coil Sensitivity</b>		
HFA SPLITS (ANSI) (dB SPL)	95-108	N/A
MASL (IEC) (dB SPL)	78-96	N/A
<b>Estimated Lithium-Ion Battery Life</b>		
Li-Ion Rechargeable Battery (hrs)	Up to 24 hours**	
<b>Tinnitus Therapy Stimulus</b>		
Max RMS Output (dB SPL)	87	
Weighted RMS Output Level (dB SPL)	87	
Max 1/3 Octave Output (dB SPL)	87	

\*Available on Livio AI only.

\*\*Results will vary based on wireless usage.

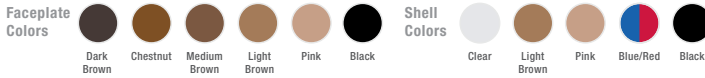


# ITE R

IN-THE-EAR RECHARGEABLE

Liveo AI 1200 | 1000  
Liveo 1200 | 1000

## Color Guide



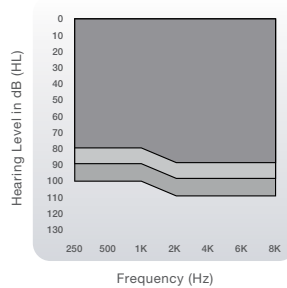
## Patient Features

- Tinnitus Technology
- Wireless Connectivity
- Lithium-Ion Rechargeable
- Telecoil

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Custom Charger
- Programmer

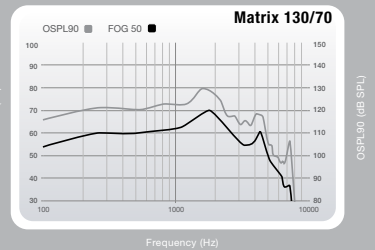
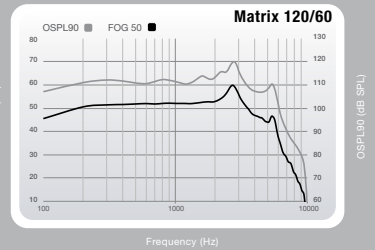
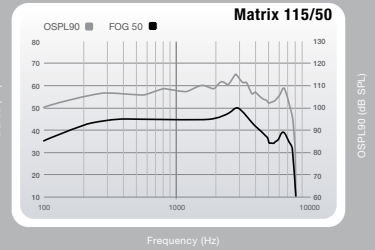
## Fitting Range



## Thrive Technology

- Embedded Sensors\*
- Natural User Interface Tap Control\*
- Additional Thrive app Feature Options

▶ Matrices: 115/50, 120/60, 130/70\*\*



## ITE R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	115-130	126-139
HFA OSPL90 (dB SPL)	110-123	N/A
RTF OSPL90 (dB SPL)	N/A	119-139
Peak Gain (dB)	50-70	62-80
HFA Full-On Gain (dB)	45-64	N/A
RTF Full-On Gain (dB)	N/A	55-78
<b>Frequency Range (Hz)</b>	<b>&lt;100-7800</b>	<b>&lt;100-7800</b>
Reference Test Freq. (kHz)	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	32-46	45-64
Equivalent Input Noise (dB)	<25	<25
<b>Harmonic Distortion</b>		
500 Hz (%)	<3	<3
800 Hz (%)	<3	<3
1600 Hz (%)	<3	<3

## ITE R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Induction Coil Sensitivity</b>		
HFA SPLITS (ANSI) (dB SPL)	95-108	N/A
MASL (IEC) (dB SPL)	78-96	N/A
<b>Estimated Lithium-Ion Battery Life</b>		
Li-Ion Rechargeable Battery (hrs)	Up to 24 hours***	
<b>Tinnitus Therapy Stimulus</b>		
Max RMS Output (dB SPL)	87	
Weighted RMS Output Level (dB SPL)	87	
Max 1/3 Octave Output (dB SPL)	87	

\*Available on Livio AI only.

\*\*The highest matrix of 130/70 is not offered on 1000 technology tier.

\*\*\*Results will vary based on wireless usage.



# HS R

HALF SHELL RECHARGEABLE

Livio AI 2000 | 1600  
Livio 2400 | 2000 | 1600

## Color Guide

Faceplate Colors



Shell Colors



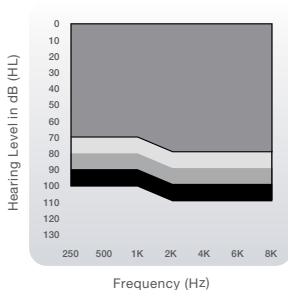
## Patient Features

- Tinnitus Technology
- Wireless Connectivity
- Lithium-Ion Rechargeable

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Custom Charger
- Programmer

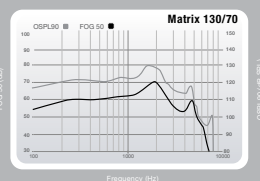
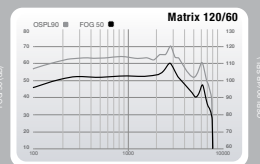
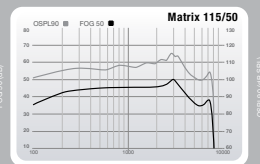
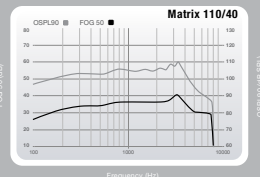
## Fitting Range



- HS R 40
- HS R 50
- HS R 60
- HS R 70

## Thrive Technology

- Embedded Sensors\*
- Natural User Interface Tap Control\*
- Additional Thrive app Feature Options



## HS R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	110-130	121-139
HFA OSPL90 (dB SPL)	106-124	N/A
RTF OSPL90 (dB SPL)	N/A	115-139
Peak Gain (dB)	40-70	53-79
HFA Full-On Gain (dB)	36-63	N/A
RTF Full-On Gain (dB)	N/A	46-78
<b>Frequency Range (Hz)</b>	<100-9600	<100-9600
Reference Test Freq. (kHz)	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	28-47	39-64
Equivalent Input Noise (dB)	<25	<25
<b>Harmonic Distortion</b>		
500 Hz (%)	<3	<3
800 Hz (%)	<3	<3
1600 Hz (%)	<3	<3

## HS R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Estimated Lithium-Ion Battery Life</b>		
Li-Ion Rechargeable Battery (hrs)	Up to 24 hours**	
<b>Tinnitus Therapy Stimulus</b>		
Max RMS Output (dB SPL)	87	
Weighted RMS Output Level (dB SPL)	87	
Max 1/3 Octave Output (dB SPL)	87	

\*Available on Livio AI only.

\*\*Results will vary based on wireless usage.



# HS R

HALF SHELL RECHARGEABLE

Livio AI 1200 | 1000  
Livio 1200 | 1000

▶ Matrices: 110/140, 115/50, 120/60, 130/70\*\*

## Color Guide

Faceplate Colors



Shell Colors



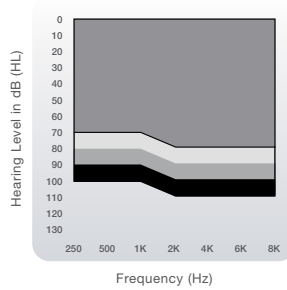
## Patient Features

- Tinnitus Technology
- Wireless Connectivity
- Lithium-Ion Rechargeable

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Custom Charger
- Programmer

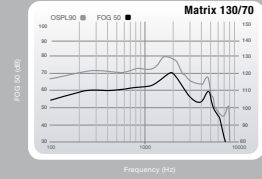
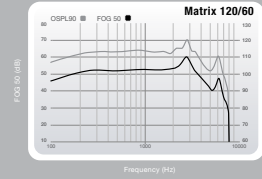
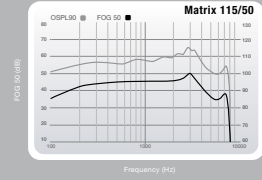
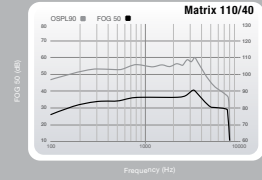
## Fitting Range



- HS R 40
- HS R 50
- HS R 60
- HS R 70

## Thrive Technology

- Embedded Sensors\*
- Natural User Interface Tap Control\*
- Additional Thrive app Feature Options



## HS R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	110-130	121-139
HFA OSPL90 (dB SPL)	106-124	N/A
RTF OSPL90 (dB SPL)	N/A	115-139
Peak Gain (dB)	40-70	53-79
HFA Full-On Gain (dB)	36-63	N/A
RTF Full-On Gain (dB)	N/A	46-78
<b>Frequency Range (Hz)</b>	<100-7900	<100-8000
Reference Test Freq. (kHz)	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	28-47	39-64
Equivalent Input Noise (dB)	<25	<25
<b>Harmonic Distortion</b>		
500 Hz (%)	<3	<3
800 Hz (%)	<3	<3
1600 Hz (%)	<3	<3

## HS R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Estimated Lithium-Ion Battery Life</b>		
Li-Ion Rechargeable Battery (hrs)	Up to 24 hours***	
<b>Tinnitus Therapy Stimulus</b>		
Max RMS Output (dB SPL)	87	
Weighted RMS Output Level (dB SPL)	87	
Max 1/3 Octave Output (dB SPL)	87	

\*Available on Livio AI only.

\*\*The highest matrix of 130/70 is not offered on 1000 technology tier.

\*\*\*Results will vary based on wireless usage.



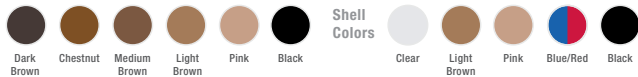
# ITC R

IN-THE-CANAL RECHARGEABLE

Livio AI 2000 | 1600  
Livio 2400 | 2000 | 1600

## Color Guide

Faceplate Colors



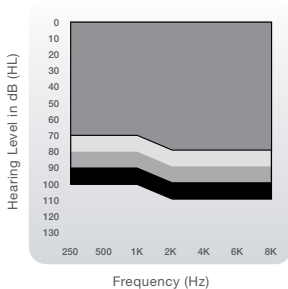
## Patient Features

- Tinnitus Technology
- Wireless Connectivity
- Lithium-Ion Rechargeable

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Custom Charger
- Programmer

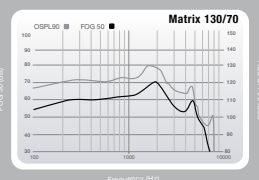
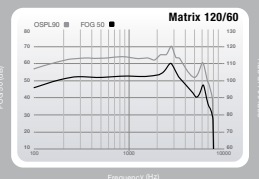
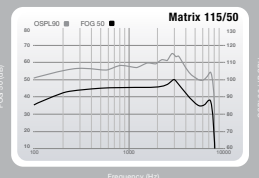
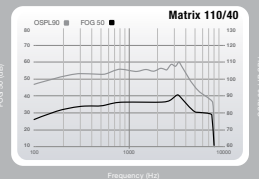
## Fitting Range



- ITC R 40
- ITC R 50
- ITC R 60
- ITC R 70

## Thrive Technology

- Embedded Sensors\*
- Natural User Interface Tap Control\*
- Additional Thrive app Feature Options



### ITC R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	110-130	121-139
HFA OSPL90 (dB SPL)	106-124	N/A
RTF OSPL90 (dB SPL)	N/A	115-139
Peak Gain (dB)	40-70	53-79
HFA Full-On Gain (dB)	36-63	N/A
RTF Full-On Gain (dB)	N/A	46-78
<b>Frequency Range (Hz)</b>	<b>&lt;100-9600</b>	<b>&lt;100-9600</b>
Reference Test Freq. (kHz)	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	28-47	39-64
Equivalent Input Noise (dB)	<25	<25
<b>Harmonic Distortion</b>		
500 Hz (%)	<3	<3
800 Hz (%)	<3	<3
1600 Hz (%)	<3	<3

### ITC R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Estimated Lithium-Ion Battery Life</b>		
Li-Ion Rechargeable Battery (hrs)		Up to 24 hours**
<b>Tinnitus Therapy Stimulus</b>		
Max RMS Output (dB SPL)	87	
Weighted RMS Output Level (dB SPL)	87	
Max 1/3 Octave Output (dB SPL)	87	

\*Available on Livio AI only.

\*\*Results will vary based on wireless usage.





# ITC R

IN-THE-CANAL RECHARGEABLE

Livio AI 1200 | 1000  
Livio 1200 | 1000

## Color Guide

Faceplate Colors



Dark Brown



Chestnut



Medium Brown



Light Brown



Pink



Black

Shell Colors



Clear



Light Brown



Pink



Blue/Red



Black

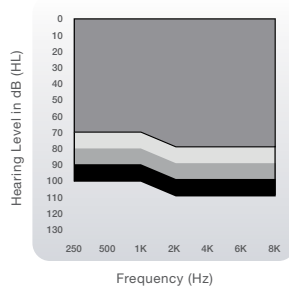
## Patient Features

- Tinnitus Technology
- Wireless Connectivity
- Lithium-Ion Rechargeable

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Custom Charger
- Programmer

## Fitting Range

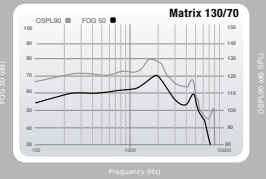
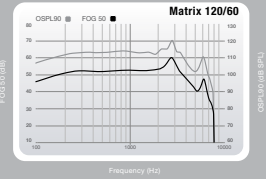
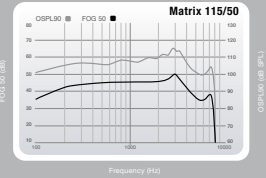
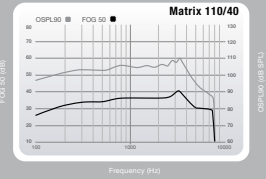


- ITC R 40
- ITC R 50
- ITC R 60
- ITC R 70

## Thrive Technology

- Embedded Sensors\*
- Natural User Interface Tap Control\*
- Additional Thrive app Feature Options

▶ Matrices: 110/140, 115/50, 120/60, 130/70\*\*



## ITC R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	110-130	121-139
HFA OSPL90 (dB SPL)	106-124	N/A
RTF OSPL90 (dB SPL)	N/A	115-139
Peak Gain (dB)	40-70	53-79
HFA Full-On Gain (dB)	36-63	N/A
RTF Full-On Gain (dB)	N/A	46-78
<b>Frequency Range (Hz)</b>	<100-7900	<100-8000
Reference Test Freq. (kHz)	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	28-47	39-64
Equivalent Input Noise (dB)	<25	<25
<b>Harmonic Distortion</b>		
500 Hz (%)	<3	<3
800 Hz (%)	<3	<3
1600 Hz (%)	<3	<3

## ITC R Gain Data

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Estimated Lithium-Ion Battery Life</b>		
Li-Ion Rechargeable Battery (hrs)		Up to 24 hours***
<b>Tinnitus Therapy Stimulus</b>		
Max RMS Output (dB SPL)	87	
Weighted RMS Output Level (dB SPL)	87	
Max 1/3 Octave Output (dB SPL)	87	

\*Available on Livio AI only.

\*\*The highest matrix of 130/70 is not offered on 1000 technology tier.

\*\*\*Results will vary based on wireless usage.



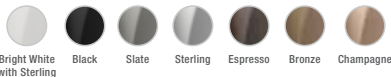
# RIC R

## RECEIVER-IN-CANAL RECHARGEABLE

Livio AI 2000 | 1600  
Livio 2400 | 2000 | 1600

### Color Guide

Standard Colors



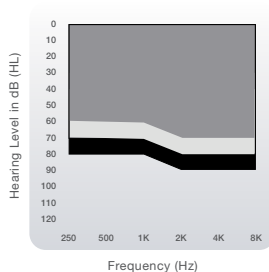
### Patient Features

- Tinnitus Technology
- Wireless Connectivity
- CROS System
- Lithium-Ion Rechargeable
- Telecoil
- Dual Radio (2.4 GHz + NFM1) Ear-to-Ear Streaming

### Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Standard Charger
- Mini Turbo Charger
- Programmer

### Fitting Range

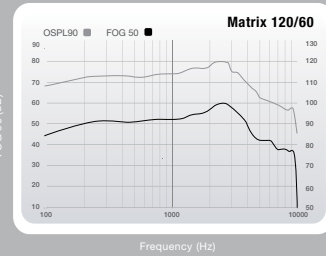
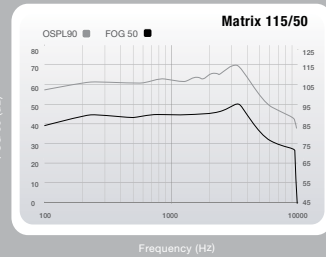
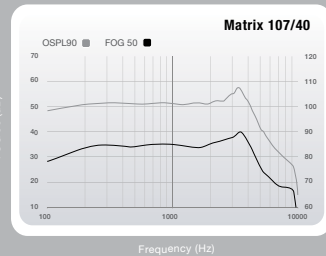


- RIC R 40
- RIC R 50
- RIC R 60

### Thrive Technology

- Embedded Sensors\*
- Natural User Interface Tap Control\*
- Additional Thrive app Feature Options

▶ Matrices: 107/40, 115/50, ▶ Battery Size: Encased 312 120/60



Measurement	40 Gain Data		50 Gain Data		60 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	107	120	115	127	120	131
HFA OSPL90 (dB SPL)	102	N/A	109	N/A	117	N/A
RTF OSPL90 (dB SPL)	N/A	112	N/A	119	N/A	127
Peak Gain (dB)	40	52	50	63	60	71
HFA Full-On Gain (dB)	35	N/A	45	N/A	56	N/A
RTF Full-On Gain (dB)	N/A	43	N/A	55	N/A	65
Frequency Range (Hz)	<100-9400	<100-9400	<100-9600	<100-9600	<100-9200	<100-9600
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	25	36	32	44	40	52
Equivalent Input Noise (dB)	26	26	26	26	26	26
<b>Harmonic Distortion</b>						
500 Hz (%)	<3	<3	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3	<3	<3

Measurement	40 Gain Data		50 Gain Data		60 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Induction Coil Sensitivity</b>						
HFA SPLITS (ANSI) (dB SPL)	83	N/A	89	N/A	97	N/A
MASL (IEC) (dB SPL)	64	N/A	75	N/A	84	N/A
<b>Estimated Lithium-Ion Battery Life</b>						
Li-Ion Rechargeable Battery (hrs)	Up to 24 hours**		Up to 24 hours**		Up to 24 hours**	
<b>Tinnitus Therapy Stimulus</b>						
Max RMS Output (dB SPL)	87		87		87	
Weighted RMS Output Level (dB SPL)	87		87		87	
Max 1/3 Octave Output (dB SPL)	87		87		87	

\*Available on Livio AI only.

\*\*Results will vary based on wireless usage.



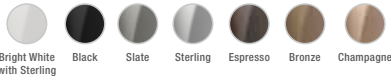
# RIC R

## RECEIVER-IN-CANAL RECHARGEABLE

Livio AI 1200 | 1000  
Livio 1200 | 1000

### Color Guide

Standard Colors



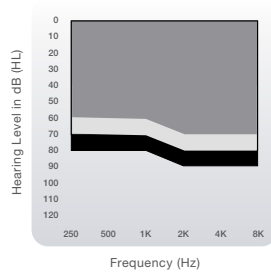
### Patient Features

- Tinnitus Technology
- Wireless Connectivity
- CROS System\*
- Lithium-Ion Rechargeable
- Telecoil
- Dual Radio (2.4 GHz + NFMI)
- Ear-to-Ear Streaming

### Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Standard Charger
- Mini Turbo Charger
- Programmer

### Fitting Range

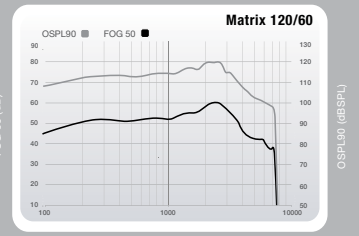
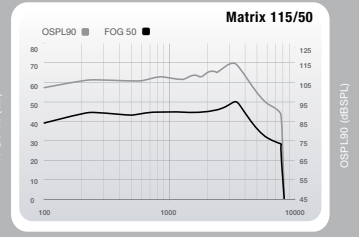
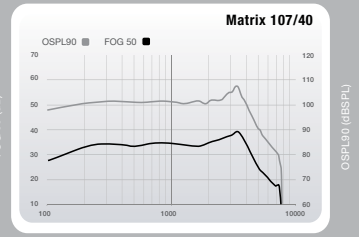


- RIC R 40
- RIC R 50
- RIC R 60

### Thrive Technology

- Embedded Sensors\*\*
- Natural User Interface Tap Control\*\*
- Additional Thrive app Feature Options

▶ Matrices: 107/40, 115/50, ▶ Battery Size: Encased 312 120/60



	40 Gain Data		50 Gain Data		60 Gain Data	
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Measurement	ANSI/IEC 2cc Coupler		IEC OES Coupler		ANSI/IEC 2cc Coupler		IEC OES Coupler	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	107	120	115	127	120	131		
HFA OSPL90 (dB SPL)	102	N/A	109	N/A	117	N/A		
RTF OSPL90 (dB SPL)	N/A	112	N/A	119	N/A	127		
Peak Gain (dB)	40	52	50	63	60	71		
HFA Full-On Gain (dB)	35	N/A	45	N/A	56	N/A		
RTF Full-On Gain (dB)	N/A	43	N/A	55	N/A	65		
Frequency Range (Hz)	<100-7700	<100-7700	<100-7700	<100-7800	<100-7700	<100-7800		
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6	N/A	1.6		
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A		
Reference Test Gain (dB)	25	36	32	44	40	52		
Equivalent Input Noise (dB)	26	26	26	26	26	26		
<b>Harmonic Distortion</b>								
500 Hz (%)	<3	<3	<3	<3	<3	<3		
800 Hz (%)	<3	<3	<3	<3	<3	<3		
1600 Hz (%)	<3	<3	<3	<3	<3	<3		

	40 Gain Data		50 Gain Data		60 Gain Data	
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Measurement	ANSI/IEC 2cc Coupler		IEC OES Coupler		ANSI/IEC 2cc Coupler		IEC OES Coupler	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Induction Coil Sensitivity</b>								
HFA SPLITS (ANSI) (dB SPL)	83	N/A	89	N/A	97	N/A		
MASL (IEC) (dB SPL)	64	N/A	75	N/A	84	N/A		
<b>Estimated Lithium-Ion Battery Life</b>								
Li-Ion Rechargeable Battery (hrs)	Up to 24 hours***		Up to 24 hours***		Up to 24 hours***			
<b>Tinnitus Therapy Stimulus</b>								
Max RMS Output (dB SPL)	87		87		87			
Weighted RMS Output Level (dB SPL)	87		87		87			
Max 1/3 Octave Output (dB SPL)	87		87		87			

\*Available on 1200 technology tier only.  
\*\*Available on Livio AI only.  
\*\*\*Results will vary based on wireless usage.



# RIC R AP

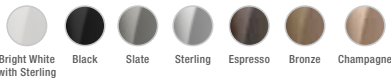
RECEIVER-IN-CANAL RECHARGEABLE Absolute Power

Livio AI 2000 | 1600

Livio 2400 | 2000 | 1600

## Color Guide

Standard Colors



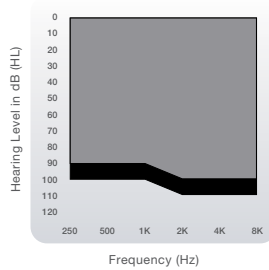
## Patient Features

- Tinnitus Technology
- Wireless Connectivity
- CROS System
- Lithium-Ion Rechargeable
- Telecoil
- Dual Radio (2.4 GHz + NFMI)
- Ear-to-Ear Streaming

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Standard Charger
- Mini Turbo Charger
- Programmer

## Fitting Range



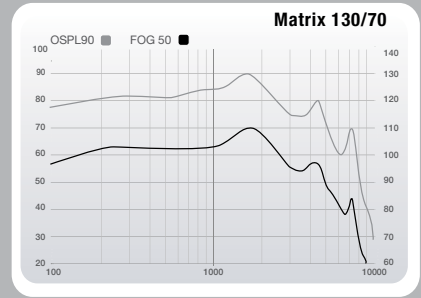
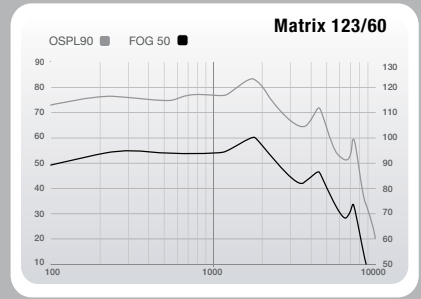
- RIC R 60 AP
- RIC R 70 AP

## Thrive Technology

- Embedded Sensors\*
- Natural User Interface Tap Control\*
- Additional Thrive app Feature Options

▶ Matrices: 123/60, 130/70

▶ Battery Size: Encased 312



Measurement	60 Gain Data		70 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	123	133	130	140
HFA OSPL90 (dB SPL)	117	N/A	124	N/A
RTF OSPL90 (dB SPL)	N/A	130	N/A	139
Peak Gain (dB)	60	70	70	81
HFA Full-On Gain (dB)	54	N/A	65	N/A
RTF Full-On Gain (dB)	N/A	66	N/A	78
<b>Frequency Range (Hz)</b>	<b>&lt;100-5500</b>	<b>&lt;100-5700</b>	<b>&lt;100-5800</b>	<b>&lt;100-5700</b>
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	40	55	47	64
Equivalent Input Noise (dB)	26	26	26	26
<b>Harmonic Distortion</b>				
500 Hz (%)	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3

Measurement	60 Gain Data		70 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Induction Coil Sensitivity</b>				
HFA SPLITS (ANSI) (dB SPL)	97	N/A	103	N/A
MASL (IEC) (dB SPL)	83	N/A	93	N/A
<b>Estimated Lithium-Ion Battery Life</b>				
Li-Ion Rechargeable Battery (hrs)	Up to 24 hours**		Up to 24 hours**	
<b>Tinnitus Therapy Stimulus</b>				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

\*Available on Livio AI only.

\*\*Results will vary based on wireless usage.



# RIC R AP

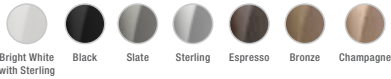
RECEIVER-IN-CANAL RECHARGEABLE Absolute Power

Livio AI 1200 | 1000

Livio 1200 | 1000

## Color Guide

Standard Colors



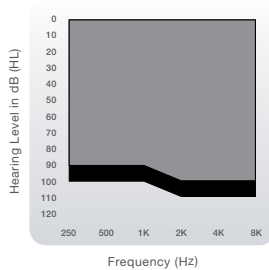
## Patient Features

- Tinnitus Technology
- Wireless Connectivity
- CROS System\*
- Lithium-Ion Rechargeable
- Telecoil
- Dual Radio (2.4 GHz + NFMI)
- Ear-to-Ear Streaming

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Standard Charger
- Mini Turbo Charger
- Programmer

## Fitting Range



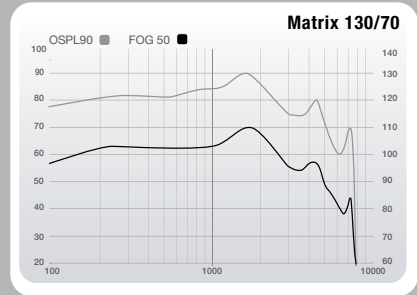
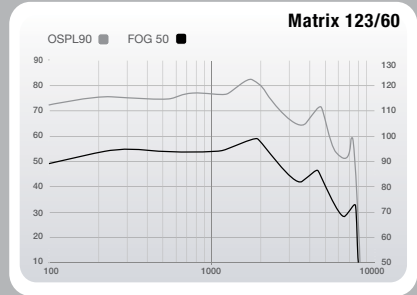
- RIC R 60 AP
- RIC R 70 AP

## Thrive Technology

- Embedded Sensors\*\*
- Natural User Interface Tap Control\*\*
- Additional Thrive app Feature Options

▶ Matrices: 123/60, 130/70

▶ Battery Size: Encased 312



Measurement	60 Gain Data		70 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	123	133	130	140
HFA OSPL90 (dB SPL)	117	N/A	124	N/A
RTF OSPL90 (dB SPL)	N/A	130	N/A	139
Peak Gain (dB)	60	70	70	81
HFA Full-On Gain (dB)	54	N/A	65	N/A
RTF Full-On Gain (dB)	N/A	66	N/A	78
<b>Frequency Range (Hz)</b>	<100-5500	<100-5700	<100-5800	<100-5700
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	40	55	47	64
Equivalent Input Noise (dB)	26	26	26	26
<b>Harmonic Distortion</b>				
500 Hz (%)	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3

Measurement	60 Gain Data		70 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Induction Coil Sensitivity</b>				
HFA SPLITS (ANSI) (dB SPL)	97	N/A	103	N/A
MASL (IEC) (dB SPL)	83	N/A	93	N/A
<b>Estimated Lithium-Ion Battery Life</b>				
Li-Ion Rechargeable Battery (hrs)	Up to 24 hours***		Up to 24 hours***	
<b>Tinnitus Therapy Stimulus</b>				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

\*Available on 1200 technology tier only.

\*\*Available on Livio AI only.

\*\*\*Results will vary based on wireless usage.



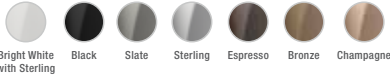
# RIC 312

RECEIVER-IN-CANAL

Livio AI 2000 | 1600  
Livio 2400 | 2000 | 1600

## Color Guide

Standard Colors



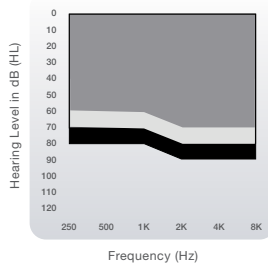
## Patient Features

- Tinnitus Technology
- Wireless Connectivity
- CRÖS System
- Dual Radio (2.4 GHz + NFMI)
- Ear-to-Ear Streaming

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Programmer

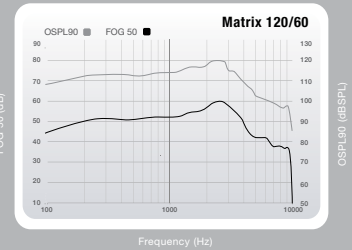
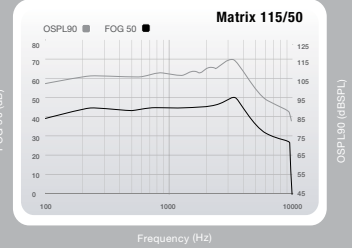
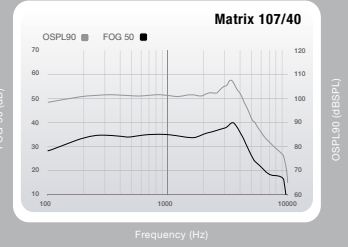
## Fitting Range



- RIC 312 40
- RIC 312 50
- RIC 312 60

## Thrive Technology

- Embedded Sensors\*
- Natural User Interface Tap Control\*
- Additional Thrive app Feature Options



	40 Gain Data		50 Gain Data		60 Gain Data	
Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler

Peak OSPL90 (dB SPL)	107	120	115	127	120	131
HFA OSPL90 (dB SPL)	102	N/A	109	N/A	117	N/A
RTF OSPL90 (dB SPL)	N/A	112	N/A	119	N/A	127
Peak Gain (dB)	40	52	50	63	60	71
HFA Full-On Gain (dB)	35	N/A	45	N/A	56	N/A
RTF Full-On Gain (dB)	N/A	43	N/A	55	N/A	65
<b>Frequency Range (Hz)</b>	<b>&lt;100-9400</b>	<b>&lt;100-9400</b>	<b>&lt;100-9600</b>	<b>&lt;100-9600</b>	<b>&lt;100-9200</b>	<b>&lt;100-9600</b>
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	25	36	32	44	40	52
Equivalent Input Noise (dB)	26	26	26	26	26	26
<b>Harmonic Distortion</b>						
500 Hz (%)	<3	<3	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3	<3	<3

	40 Gain Data		50 Gain Data		60 Gain Data	
Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler

ANSI/IEC Battery Current (mA)	1.8**	1.7**	1.9**	1.8**	2.1**	2.0**
Idle Current (mA)	1.7**	1.7**	1.7**	1.7**	1.8**	1.9**
<b>Estimated Battery Life for 16-Hour Day</b>						
312 Zinc Air (days)	4-7**	4-7**	4-7**	4-7**	4-7**	4-7**
<b>Tinnitus Therapy Stimulus</b>						
Max RMS Output (dB SPL)	87		87		87	
Weighted RMS Output Level (dB SPL)	87		87		87	
Max 1/3 Octave Output (dB SPL)	87		87		87	

\*Available on Livio AI only.

\*\*Results will vary based on wireless usage.



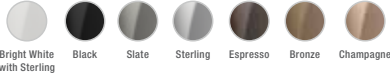
# RIC 312

## RECEIVER-IN-CANAL

Livio AI 1200 | 1000  
Livio 1200 | 1000

### Color Guide

Standard Colors



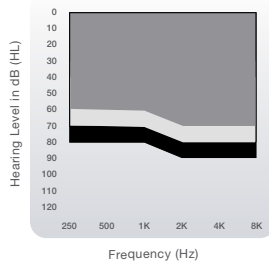
### Patient Features

- Tinnitus Technology
- Wireless Connectivity
- CROS System\*
- Dual Radio (2.4 GHz + NFM)
- Ear-to-Ear Streaming

### Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Programmer

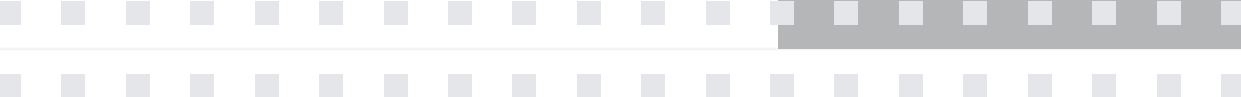
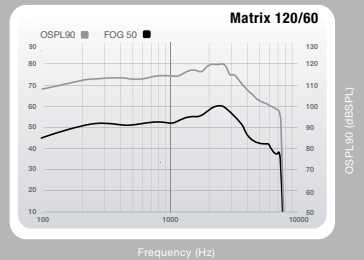
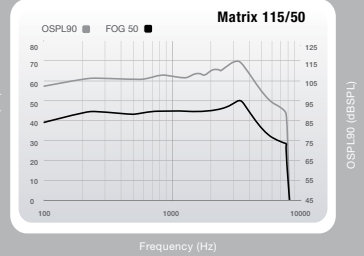
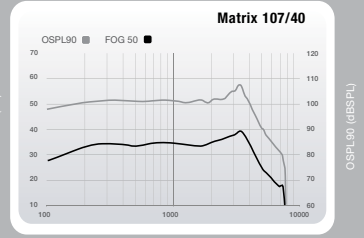
### Fitting Range



- RIC 312 40
- RIC 312 50
- RIC 312 60

### Thrive Technology

- Embedded Sensors\*\*
- Natural User Interface Tap Control\*\*
- Additional Thrive app Feature Options



	40 Gain Data		50 Gain Data		60 Gain Data	
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Measurement	ANSI/IEC 2cc Coupler		IEC OES Coupler		ANSI/IEC 2cc Coupler		IEC OES Coupler	
	<100-7700	<100-6900	<100-7700	<100-7800	<100-7700	<100-7800	<100-7700	<100-7800
Peak OSPL90 (dB SPL)	107	120	115	127	120	131		
HFA OSPL90 (dB SPL)	102	N/A	109	N/A	117	N/A		
RTF OSPL90 (dB SPL)	N/A	112	N/A	119	N/A	127		
Peak Gain (dB)	40	52	50	63	60	71		
HFA Full-On Gain (dB)	35	N/A	45	N/A	56	N/A		
RTF Full-On Gain (dB)	N/A	43	N/A	55	N/A	65		
Frequency Range (Hz)	<100-7700	<100-6900	<100-7700	<100-7800	<100-7700	<100-7800		
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6	N/A	1.6		
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A		
Reference Test Gain (dB)	25	36	32	44	40	52		
Equivalent Input Noise (dB)	26	26	26	26	26	26		

Harmonic Distortion								
500 Hz (%)	<3	<3	<3	<3	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3	<3	<3	<3	<3

	40 Gain Data		50 Gain Data		60 Gain Data	
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Measurement	ANSI/IEC 2cc Coupler		IEC OES Coupler		ANSI/IEC 2cc Coupler		IEC OES Coupler	
	<100-7700	<100-6900	<100-7700	<100-7800	<100-7700	<100-7800	<100-7700	<100-7800
ANSI/IEC Battery Current (mA)	1.8***	1.7***	1.9***	1.8***	2.1***	2.0***		
Idle Current (mA)	1.7***	1.7***	1.7***	1.7***	1.8***	1.9***		
Estimated Battery Life for 16-Hour Day								
312 Zinc Air (days)	4-7***	4-7***	4-7***	4-7***	4-7***	4-7***		

Tinnitus Therapy Stimulus								
Max RMS Output (dB SPL)	87		87		87			
Weighted RMS Output Level (dB SPL)	87		87		87			
Max 1/3 Octave Output (dB SPL)	87		87		87			

\*Available on 1200 technology tier only.  
\*\*Available on Livio AI only.  
\*\*\*Results will vary based on wireless usage.



# RIC 312 AP

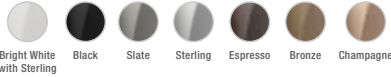
RECEIVER-IN-CANAL Absolute Power

Livio AI 2000 | 1600

Livio 2400 | 2000 | 1600

## Color Guide

Standard Colors



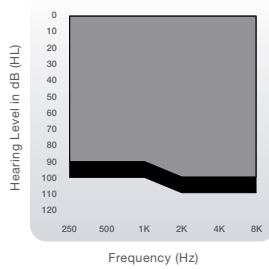
## Patient Features

- Tinnitus Technology
- Wireless Connectivity
- CROS System
- Dual Radio (2.4 GHz + NFMI)
- Ear-to-Ear Streaming

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Programmer

## Fitting Range



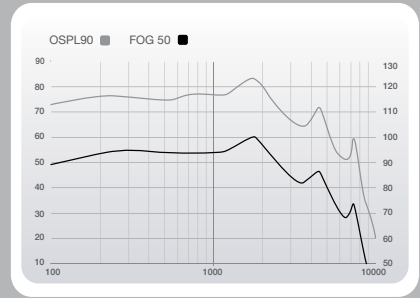
- RIC 312 60 AP
- RIC 312 70 AP

## Thrive Technology

- Embedded Sensors\*
- Natural User Interface Tap Control\*
- Additional Thrive app Feature Options

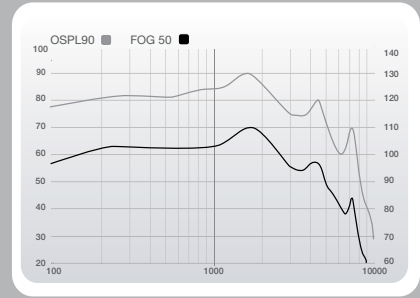
▶ Matrices: 123/60, 130/70

▶ Battery Size: 312



FOG 50 (dB)

OSPL90 (dB SPL)



FOG 50 (dB)

OSPL90 (dB SPL)

### 60 Gain Data

### 70 Gain Data

### 60 Gain Data

### 70 Gain Data

Measurement	ANSI/IEC 2cc Coupler		IEC OES Coupler	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	123	133	130	140
HFA OSPL90 (dB SPL)	117	N/A	124	N/A
RTF OSPL90 (dB SPL)	N/A	130	N/A	139
Peak Gain (dB)	60	70	70	81
HFA Full-On Gain (dB)	54	N/A	65	N/A
RTF Full-On Gain (dB)	N/A	66	N/A	78
<b>Frequency Range (Hz)</b>	<b>&lt;100-5500</b>	<b>&lt;100-5700</b>	<b>&lt;100-5800</b>	<b>&lt;100-5700</b>
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	40	55	47	64
Equivalent Input Noise (dB)	26	26	26	26

### Harmonic Distortion

500 Hz (%)	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3

Measurement	ANSI/IEC 2cc Coupler		IEC OES Coupler	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
ANSI/IEC Battery Current (mA)	1.7**	1.7**	1.9**	1.8**
Idle Current (mA)	1.7**	1.7**	1.7**	1.7**
<b>Estimated Lithium-Ion Battery Life</b>				
312 Zinc Air (days)	4-7**	4-7**	4-7**	4-7**
<b>Tinnitus Therapy Stimulus</b>				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

\*Available on Livio AI only.

\*\*Results will vary based on wireless usage.





# RIC 312 AP

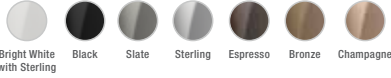
RECEIVER-IN-CANAL Absolute Power

Livio AI 1200 | 1000

Livio 1200 | 1000

## Color Guide

Standard Colors



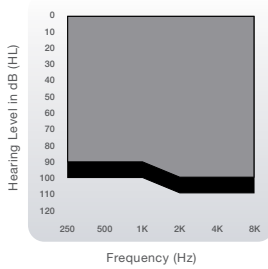
## Patient Features

- Tinnitus Technology
- Wireless Connectivity
- CROS System\*
- Dual Radio (2.4 GHz + NFMI)
- Ear-to-Ear Streaming

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Programmer

## Fitting Range



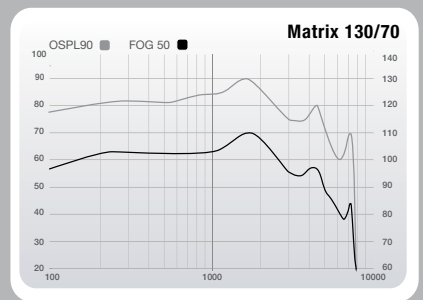
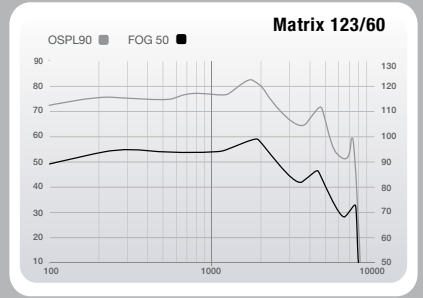
- RIC 312 60 AP
- RIC 312 70 AP

## Thrive Technology

- Embedded Sensors\*\*
- Natural User Interface Tap Control\*\*
- Additional Thrive app Feature Options

▶ Matrices: 123/60, 130/70

▶ Battery Size: 312



Measurement	60 Gain Data		70 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	123	133	130	140
HFA OSPL90 (dB SPL)	117	N/A	124	N/A
RTF OSPL90 (dB SPL)	N/A	130	N/A	139
Peak Gain (dB)	60	70	70	81
HFA Full-On Gain (dB)	54	N/A	65	N/A
RTF Full-On Gain (dB)	N/A	66	N/A	78
<b>Frequency Range (Hz)</b>	<b>&lt;100-5500</b>	<b>&lt;100-5700</b>	<b>&lt;100-5800</b>	<b>&lt;100-5700</b>
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	40	55	47	64
Equivalent Input Noise (dB)	26	26	26	26
<b>Harmonic Distortion</b>				
500 Hz (%)	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3

Measurement	60 Gain Data		70 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
ANSI/IEC Battery Current (mA)	1.7***	1.7***	1.9***	1.8***
Idle Current (mA)	1.7***	1.7***	1.7***	1.7***
<b>Estimated Lithium-Ion Battery Life</b>				
312 Zinc Air (days)	4-7***	4-7***	4-7***	4-7***
<b>Tinnitus Therapy Stimulus</b>				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

\*Available on 1200 technology tier only.  
 \*\*Available on Livio AI only.  
 \*\*\*Results will vary based on wireless usage.



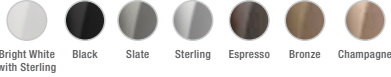
# mRIC 312

RECEIVER-IN-CANAL

Livio AI 2000 | 1600  
Livio 2400 | 2000 | 1600

## Color Guide

Standard Colors



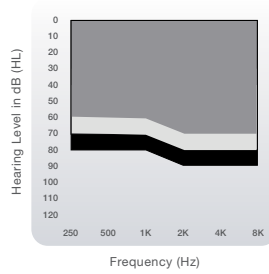
## Patient Features

- Tinnitus Technology
- Wireless Connectivity

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Programmer

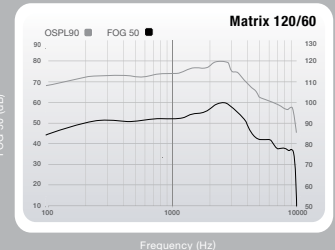
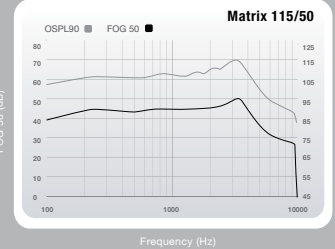
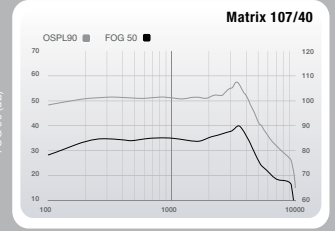
## Fitting Range



- mRIC 312 40
- mRIC 312 50
- mRIC 312 60

## Thrive Technology

- Embedded Sensors\*
- Natural User Interface Tap Control\*
- Additional Thrive app Feature Options



40 Gain Data      50 Gain Data      60 Gain Data

Measurement	40 Gain Data		50 Gain Data		60 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	107	120	115	127	120	131
HFA OSPL90 (dB SPL)	102	N/A	109	N/A	117	N/A
RTF OSPL90 (dB SPL)	N/A	112	N/A	119	N/A	127
Peak Gain (dB)	40	52	50	63	60	71
HFA Full-On Gain (dB)	35	N/A	45	N/A	56	N/A
RTF Full-On Gain (dB)	N/A	43	N/A	55	N/A	65
Frequency Range (Hz)	<100-9400	<100-9400	<100-9600	<100-9600	<100-9200	<100-9600
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	25	36	32	44	40	52
Equivalent Input Noise (dB)	26	26	26	26	26	26
<b>Harmonic Distortion</b>						
500 Hz (%)	<3	<3	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3	<3	<3

40 Gain Data      50 Gain Data      60 Gain Data

Measurement	40 Gain Data		50 Gain Data		60 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
ANSI/IEC Battery Current (mA)	1.8**	1.7**	1.9**	1.8**	2.1**	2.0**
Idle Current (mA)	1.7**	1.7**	1.7**	1.7**	1.8**	1.9**
<b>Estimated Battery Life for 16-Hour Day</b>						
312 Zinc Air (days)	4-7**	4-7**	4-7**	4-7**	4-7**	4-7**
<b>Tinnitus Therapy Stimulus</b>						
Max RMS Output (dB SPL)	87		87		87	
Weighted RMS Output Level (dB SPL)	87		87		87	
Max 1/3 Octave Output (dB SPL)	87		87		87	

\*Available on Livio AI only.

\*\*Results will vary based on wireless usage.

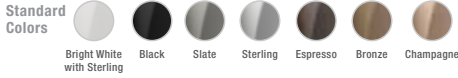


# mRIC 312

## RECEIVER-IN-CANAL

Livio AI 1200 | 1000  
Livio 1200 | 1000

### Color Guide



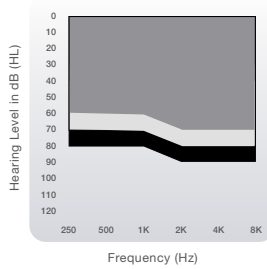
### Patient Features

- Tinnitus Technology
- Wireless Connectivity

### Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Programmer

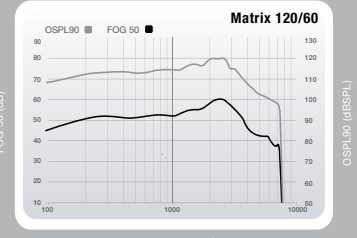
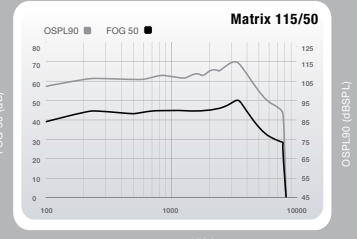
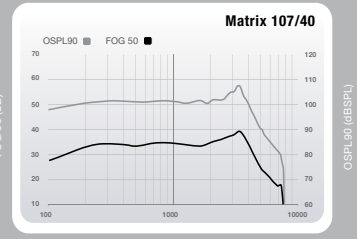
### Fitting Range



- mRIC 312 40
- mRIC 312 50
- mRIC 312 60

### Thrive Technology

- Embedded Sensors\*
- Natural User Interface Tap Control\*
- Additional Thrive app Feature Options



Measurement	40 Gain Data		50 Gain Data		60 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	107	120	115	127	120	131
HFA OSPL90 (dB SPL)	102	N/A	109	N/A	117	N/A
RTF OSPL90 (dB SPL)	N/A	112	N/A	119	N/A	127
Peak Gain (dB)	40	52	50	63	60	71
HFA Full-On Gain (dB)	35	N/A	45	N/A	56	N/A
RTF Full-On Gain (dB)	N/A	43	N/A	55	N/A	65
<b>Frequency Range (Hz)</b>	<b>&lt;100-7700</b>	<b>&lt;100-7700</b>	<b>&lt;100-7700</b>	<b>&lt;100-7800</b>	<b>&lt;100-7700</b>	<b>&lt;100-7800</b>
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	25	36	32	44	40	52
Equivalent Input Noise (dB)	26	26	26	26	26	26
<b>Harmonic Distortion</b>						
500 Hz (%)	<3	<3	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3	<3	<3

Measurement	40 Gain Data		50 Gain Data		60 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
ANSI/IEC Battery Current (mA)	1.8**	1.7**	1.9**	1.8**	2.1**	2.0**
Idle Current (mA)	1.7**	1.7**	1.7**	1.7**	1.8**	1.9**
<b>Estimated Battery Life for 16-Hour Day</b>						
312 Zinc Air (days)	4-7**	4-7**	4-7**	4-7**	4-7**	4-7**
<b>Tinnitus Therapy Stimulus</b>						
Max RMS Output (dB SPL)	87		87		87	
Weighted RMS Output Level (dB SPL)	87		87		87	
Max 1/3 Octave Output (dB SPL)	87		87		87	

\*Available on Livio AI only.  
\*\*Results will vary based on wireless usage.



# mRIC 312 AP

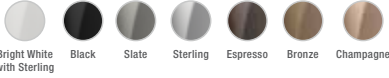
RECEIVER-IN-CANAL Absolute Power

Livio AI 2000 | 1600

Livio 2400 | 2000 | 1600

## Color Guide

Standard Colors



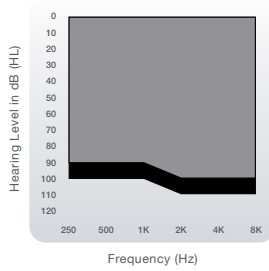
## Patient Features

- Tinnitus Technology
- Wireless Connectivity

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Programmer

## Fitting Range



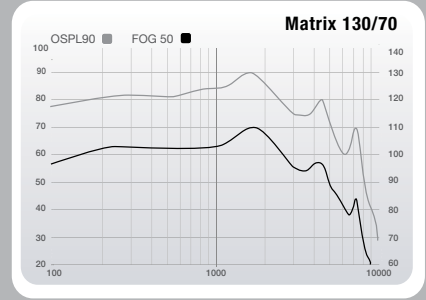
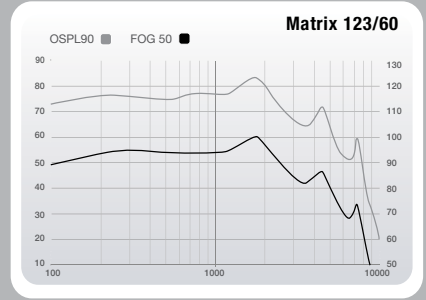
- mRIC 312 60 AP
- mRIC 312 70 AP

## Thrive Technology

- Embedded Sensors\*
- Natural User Interface Tap Control\*
- Additional Thrive app Feature Options

▶ Matrices: 123/60, 130/70

▶ Battery Size: 312



Measurement	60 Gain Data		70 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	123	133	130	140
HFA OSPL90 (dB SPL)	117	N/A	124	N/A
RTF OSPL90 (dB SPL)	N/A	130	N/A	139
Peak Gain (dB)	60	70	70	81
HFA Full-On Gain (dB)	54	N/A	65	N/A
RTF Full-On Gain (dB)	N/A	66	N/A	78
<b>Frequency Range (Hz)</b>	<100-5500	<100-5700	<100-5800	<100-5700
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	40	55	47	64
Equivalent Input Noise (dB)	26	26	26	26
<b>Harmonic Distortion</b>				
500 Hz (%)	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3

Measurement	60 Gain Data		70 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
ANSI/IEC Battery Current (mA)	1.7*	1.7*	1.9*	1.8*
Idle Current (mA)	1.7*	1.7*	1.7*	1.7*
<b>Estimated Lithium-Ion Battery Life</b>				
312 Zinc Air (days)	4-7*	4-7*	4-7*	4-7*
<b>Tinnitus Therapy Stimulus</b>				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

\*Available on Livio AI only.

\*\*Results will vary based on wireless usage.



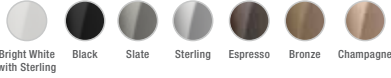
# mRIC 312 AP

RECEIVER-IN-CANAL Absolute Power

Livio AI 1200 | 1000  
Livio 1200 | 1000

## Color Guide

Standard Colors



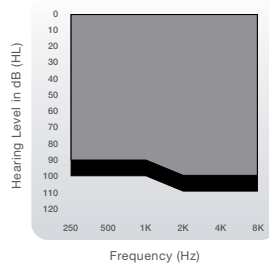
## Patient Features

- Tinnitus Technology
- Wireless Connectivity

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Programmer

## Fitting Range



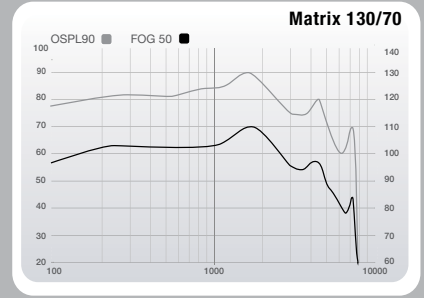
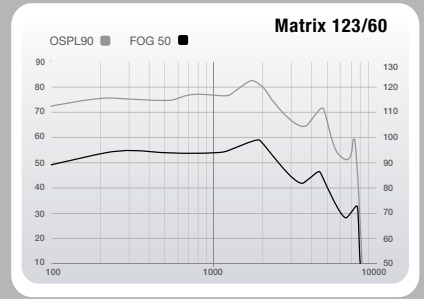
- mRIC 312 60 AP
- mRIC 312 70 AP

## Thrive Technology

- Embedded Sensors\*
- Natural User Interface Tap Control\*
- Additional Thrive app Feature Options

▶ Matrices: 123/60, 130/70

▶ Battery Size: 312



Measurement	60 Gain Data		70 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	123	133	130	140
HFA OSPL90 (dB SPL)	117	N/A	124	N/A
RTF OSPL90 (dB SPL)	N/A	130	N/A	139
Peak Gain (dB)	60	70	70	81
HFA Full-On Gain (dB)	54	N/A	65	N/A
RTF Full-On Gain (dB)	N/A	66	N/A	78
<b>Frequency Range (Hz)</b>	<100-5500	<100-5700	<100-5800	<100-5700
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	40	55	47	64
Equivalent Input Noise (dB)	26	26	26	26
<b>Harmonic Distortion</b>				
500 Hz (%)	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3

Measurement	60 Gain Data		70 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
ANSI/IEC Battery Current (mA)	1.7**	1.7**	1.9**	1.8**
Idle Current (mA)	1.7**	1.7**	1.7**	1.7**
<b>Estimated Lithium-Ion Battery Life</b>				
312 Zinc Air (days)	4-7**	4-7**	4-7**	4-7**
<b>Tinnitus Therapy Stimulus</b>				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

\*Available on Livio AI only.  
\*\*Results will vary based on wireless usage.



# BTE 13

BEHIND-THE-EAR

Livio AI 2000 | 1600

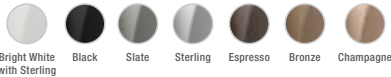
Livio 2400 | 2000 | 1600

▶ Matrix: 130/70

▶ Battery Size: 13

## Color Guide

Standard Colors



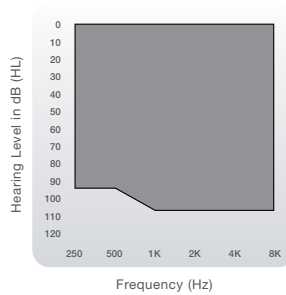
## Patient Features

- Tinnitus Technology
- Wireless Connectivity
- CROS System
- Telecoil
- Dual Radio (2.4 GHz + NFMI)
- Ear-to-Ear Streaming

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Programmer

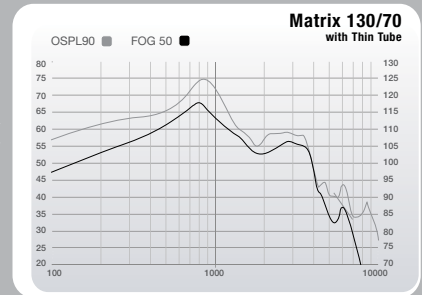
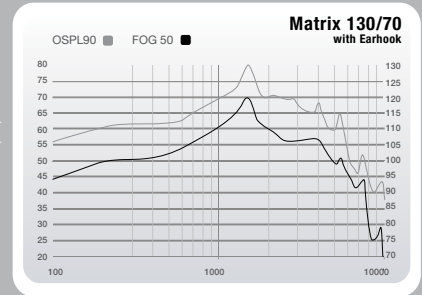
## Fitting Range



● BTE 13 70

## Thrive Technology

- Embedded Sensors\*
- Natural User Interface Tap Control\*
- Additional Thrive app Feature Options



Measurement	Earhook		Thin Tube (Size 3, Occluded)		Measurement	Earhook		Thin Tube (Size 3, Occluded)	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler		ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	130	136	124	129	<b>Induction Coil Sensitivity</b>				
HFA OSPL90 (dB SPL)	122	N/A	112	N/A	HFA SPLITS (ANSI) (dB SPL)	101	N/A	91	N/A
RTF OSPL90 (dB SPL)	N/A	134	N/A	114	MASL (IEC) (dB SPL)	92	N/A	88	N/A
Peak Gain (dB)	70	76	68	73	ANSI/IEC Battery Current (mA)	1.9*	1.8*	1.9*	1.8*
HFA Full-On Gain (dB)	62	N/A	57	N/A	Idle Current (mA)	1.7*	1.7*	1.7*	1.7*
RTF Full-On Gain (dB)	N/A	73	N/A	61	<b>Estimated Battery Life for 16-Hour Day</b>				
<b>Frequency Range (Hz)</b>	<100-7600	<100-7800	<100-4600	<100-6800	312 Zinc Air (days)	7-11*	7-11*	7-11*	7-11*
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6	<b>Tinnitus Therapy Stimulus</b>				
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A	Max RMS Output (dB SPL)	87		87	
Reference Test Gain (dB)	45	59	35	39	Weighted RMS Output Level (dB SPL)	87		87	
Equivalent Input Noise (dB)	24	18	29	29	Max 1/3 Octave Output (dB SPL)	87		87	
<b>Harmonic Distortion</b>									
500 Hz (%)	<3	<3	<3	<3					
800 Hz (%)	<5	<5	<3	<3					
1600 Hz (%)	<3	<3	<3	<3					

\*Available on Livio AI only.

\*\*Results will vary based on wireless usage.

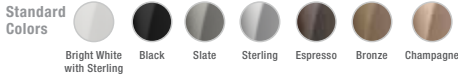


# BTE 13

BEHIND-THE-EAR

Livio AI 1200 | 1000  
Livio 1200 | 1000

## Color Guide



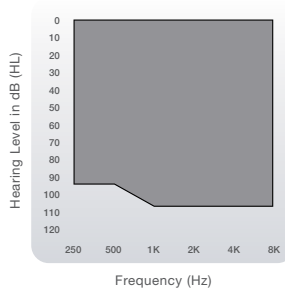
## Patient Features

- Tinnitus Technology
- Wireless Connectivity
- CROS System\*
- Telecoil
- Dual Radio (2.4 GHz + NFMI)
- Ear-to-Ear Streaming

## Accessories

- TV
- Remote Microphone +
- Remote
- Mini Remote Microphone
- Table Microphone
- Programmer

## Fitting Range



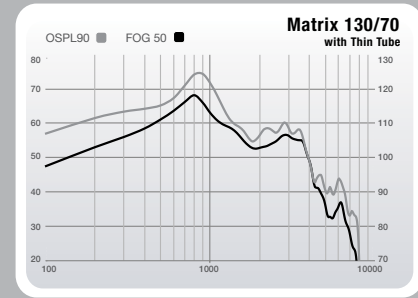
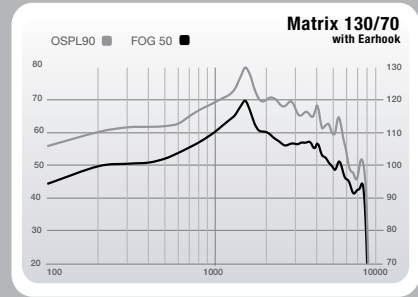
BTE 13 70

## Thrive Technology

- Embedded Sensors\*\*
- Natural User Interface Tap Control\*\*
- Additional Thrive app Feature Options

▶ Matrix: 130/70

▶ Battery Size: 13



### Earhook

### Thin Tube (Size 3, Occluded)

Measurement	Earhook		Thin Tube (Size 3, Occluded)	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	130	136	124	129
HFA OSPL90 (dB SPL)	122	N/A	112	N/A
RTF OSPL90 (dB SPL)	N/A	134	N/A	114
Peak Gain (dB)	70	76	68	73
HFA Full-On Gain (dB)	62	N/A	57	N/A
RTF Full-On Gain (dB)	N/A	73	N/A	61
<b>Frequency Range (Hz)</b>	<b>&lt;100-7600</b>	<b>&lt;100-7600</b>	<b>&lt;100-4600</b>	<b>&lt;100-6800</b>
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	45	59	35	39
Equivalent Input Noise (dB)	24	18	29	29
<b>Harmonic Distortion</b>				
500 Hz (%)	<3	<3	<3	<3
800 Hz (%)	<5	<5	<3	<3
1600 Hz (%)	<3	<3	<3	<3

### Earhook

### Thin Tube (Size 3, Occluded)

Measurement	Earhook		Thin Tube (Size 3, Occluded)	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
<b>Induction Coil Sensitivity</b>				
HFA SPLITS (ANSI) (dB SPL)	101	N/A	91	N/A
MASL (IEC) (dB SPL)	92	N/A	88	N/A
ANSI/IEC Battery Current (mA)	1.9***	1.8***	1.9***	1.8***
Idle Current (mA)	1.7***	1.7***	1.7***	1.7***
<b>Estimated Battery Life for 16-Hour Day</b>				
312 Zinc Air (days)	7-11***	7-11***	7-11***	7-11***
<b>Tinnitus Therapy Stimulus</b>				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

\*Available on 1200 technology tier only.  
\*\*Available on Livio AI only.  
\*\*\*Results will vary based on wireless usage.

# CROS System

RIC R, RIC 312 & BTE 13



Livio Edge AI 2400  
Livio AI 2000 | 1600 | 1200  
Livio 2400 | 2000 | 1600 | 1200

The Starkey CROS System includes products specifically designed for patients who need sound routed to a better hearing ear. Starkey's CROS solution transmits sound wirelessly from a microphone placed on a patient's unaidable ear to a receiver fitted on a patient's better hearing ear. Devices can also be configured as a BiCROS solution for patients who need amplification in their better hearing ear.

## Special Features

- Clear and consistent wireless streaming using 2.4 GHz + NFMI technology
- Acuity OS 2 brings audibility and speech understanding to patients in any environment
- Full Acuity Immersion Directionality on the CROS transmitter
- Telecoil standard in Livio Edge AI, Livio AI and Livio CROS receivers
- Compatible with 2.4 GHz accessories

## Compatibility

Livio Edge AI/Livio AI/Livio RIC R CROS is compatible with Livio Edge AI/Livio AI/Livio RIC R

Livio Edge AI/Livio AI/Livio RIC 312 CROS is compatible with Livio Edge AI/Livio AI/Livio RIC 312

Livio Edge AI/Livio AI/Livio BTE 13 CROS is compatible with Livio Edge AI/Livio AI/Livio BTE 13

## Battery Information

Model	Battery size	IEC code	ANSI code
Livio Edge AI/Livio AI/Livio RIC R CROS	N/A	N/A	N/A
Livio Edge AI/Livio AI/Livio RIC 312 CROS	312	PR41	7002ZD
Livio Edge AI/Livio AI/Livio BTE 13 CROS	13	PR48	7002ZD

## Radio Information

Antenna type:	Coil wrapped on ferrite core
Operation frequency:	10.281 MHz NFMI
Occupied bandwidth (99% BW):	400 kHz
Modulation:	8 DPSK
Operating range:	30 cm
Wearing options:	Receiver-In-Canal and Behind-The-Ear
Use case:	Streaming of audio signal to receiving hearing aid on the other ear

## Audio Information

Audio Quality:	20 kHz sampling frequency
----------------	---------------------------

## Standards Applied

### USA

RIC 312 FCC ID:  
EOA-24LIVIOR312

RIC R FCC ID:  
EOA-24LIVIORCHG

BTE 13 FCC ID:  
EOA-24LIVIOB13

### Canada

RIC 312 IC:  
6903A-24LIVIOR312

RIC R IC:  
6903A-24LIVIORCHG

BTE 13 IC:  
6903A-24LIVIOB13

## General Information

### Transportation and storage conditions for Zinc Air Products:

-40°C (-40°F) to +60°C (140°F) and 10%-95% rH. Your hearing aids are designed to operate beyond the range of temperatures comfortable to you, from very cold up to 50°C (122°F).

### Transportation and storage conditions for the RIC R:

Your hearing aids and charger should be stored within the temperature and humidity ranges of -10°C (14°F) to +45°C (113°F) and 10%-95% rH. The charging temperature range is between 0°C (32°F) and 40°C (104°F). Your hearing aids are designed to operate beyond the range of temperatures comfortable to you, from very cold up to 40°C (104°F). At the maximum operating temperature of 40°C (104°F), the hearing aid case temperature may reach 42°C (108°F).

### Safety Standards:

Meets IEC 60601-2-66 safety standard and IEC 60601-1-2 EMC standard.