

INTUIS 3 RIC 312

Technical Data



S-Receiver

- 56 dB / 119 dB SPL (ear simulator)
- 45 dB / 108 dB SPL (2 ccm coupler)

M-Receiver

- 70 dB / 129 dB SPL (ear simulator)
- 60 dB / 119 dB SPL (2 ccm coupler)

P-Receiver

- 80 dB / 134 dB SPL (ear simulator)
- 70 dB / 124 dB SPL (2 ccm coupler)

HP-Receiver

- 82 dB / 138 dB SPL (ear simulator)
- 75 dB / 130 dB SPL (2 ccm coupler)

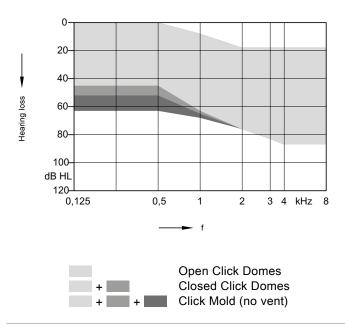
INTUIS 3 RIC 312 | Technical Data

Туре	S-Receiver		M-Receiver	
Output sound pressure level	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
at 1.6 kHz	_	109 dB SPL	_	122 dB SPL
Peak	108 dB SPL	119 dB SPL	119 dB SPL	122 dB SPL
HFA-OSPL 90	102 dB SPL	-	114 dB SPL	-
Gain				
Full on gain (FOG) at 1.6 kHz	_	43 dB	_	55 dB
Full on gain (Peak)	45 dB	56 dB	60 dB	70 dB
HFA-FOG	37 dB	_	50 dB	_
Reference test gain	25 dB	34 dB	37 dB	47 dB
Frequency, noise and directivity				
Frequency range	100-8200 Hz	100-8300 Hz	100-8200 Hz	100-8300 Hz
Equivalent input noise	18 dB SPL	22 dB SPL	19 dB SPL	23 dB SPL
Total harmonic distortion at 500 / 800 / 1600 Hz	1/1/1%	1 / 1 / 2 %	1 / 1 / 2 %	1 / 3 / 3 %
Tinnitus noiser broadband	_	_	_	_
AI-DI	3.8 dB		3.8 dB	
Latency	< 15 ms		< 15 ms	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	-	75 dB SPL	_	85 dB SPL
HFA MASL (1 mA/m)	68 dB SPL	_	80 dB SPL	-
HFA SPLITS (left/right)	84 / 84 dB SPL	_	96 / 96 dB SPL	-
RSETS (left/right)	-1 / -1 dB SPL	_	-1 / -1 dB SPL	-
Battery				
Battery voltage	1.3 V		1.3 V	
Battery current drain	0.9 mA		1.0 mA	
Battery life (cell zinc air)	~130 h		~120 h	
Battery life (rechargeable)	-		_	
IRIL IEC 118-13:2011 (bystander)				
800-960 MHz	<-6 dB SPL		<-6 dB SPL	
1400-2000 MHz	<-24 dB SPL		<-24 dB SPL	
ANSI C63.19	M4 / T4		M4 / T4	

INTUIS 3 RIC 312 | Technical Data

Туре	P-Receiver		HP-Receiver		
Output sound pressure level	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator	
at 1.6 kHz	-	128 dB SPL	_	137 dB SPL	
Peak	124 dB SPL	134 dB SPL	130 dB SPL	138 dB SPL	
HFA-OSPL 90	120 dB SPL	_	124 dB SPL	_	
Gain		I			
Full on gain (FOG) at 1.6 kHz	-	70 dB	_	82 dB	
Full on gain (Peak)	70 dB	80 dB	75 dB	82 dB	
HFA-FOG	63 dB	_	68 dB	_	
Reference test gain	43 dB	53 dB	48 dB	62 dB	
Frequency, noise and directivity		1			
Frequency range	100-7800 Hz	100-7800 Hz	100-7400 Hz	250-5200 Hz	
Equivalent input noise	18 dB SPL	21 dB SPL	18 dB SPL	12 dB SPL	
Total harmonic distortion at 500 / 800 / 1600 Hz	2/2/1%	3/3/2%	1/2/1%	1/1/1%	
Tinnitus noiser broadband	_	_	-	-	
AI-DI	3.8	3.8 dB		3.8 dB	
Latency	< 15 ms		< 15 ms		
Inductive coil sensitivity					
MASL (1 mA/m) at 1.6 kHz	-	100 dB SPL	-	114 dB SPL	
HFA MASL (1 mA/m)	91 dB SPL	_	99 dB SPL	-	
HFA SPLITS (left/right)	102 / 102 dB SPL	_	107 / 107 dB SPL	-	
RSETS (left/right)	-1 / -1 dB SPL	_	-1 / -1 dB SPL	-	
Battery					
Battery voltage	1.3 V		1.3 V		
Battery current drain	1.0 mA		1.1 mA		
Battery life (cell zinc air)	~120 h		~110 h		
Battery life (rechargeable)	-		_		
IRIL IEC 118-13:2011 (bystander)					
800-960 MHz	<-6 dB SPL		<-6 dB SPL		
1400-2000 MHz	<-24 dB SPL		<-24 dB SPL		
ANSI C63.19	M4 / T4		M4 / T4		

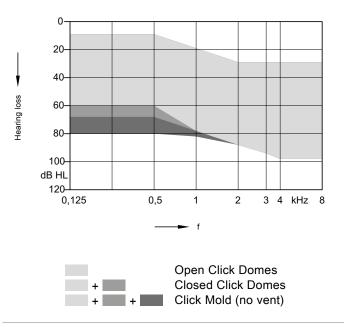
INTUIS 3 RIC 312 | Fitting Range



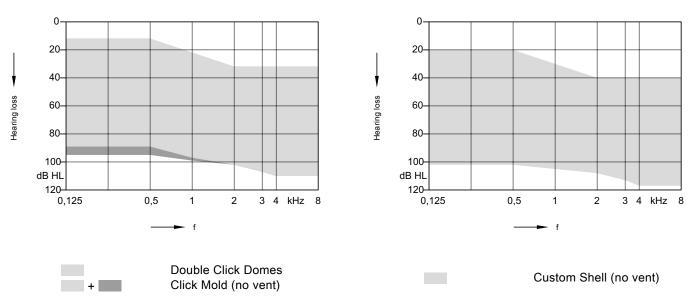
S-Receiver

M-Receiver

HP-Receiver

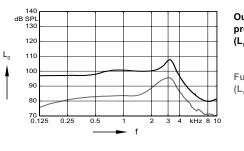


P-Receiver



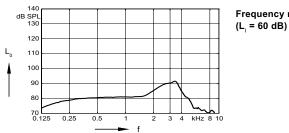
S-Receiver (Closed Click Dome) | Basic Data

2 ccm coupler



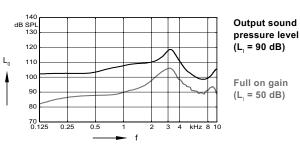
Output sound pressure level (L₁ = 90 dB)

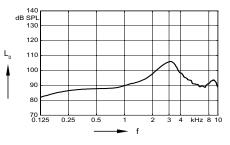
Full on gain (L = 50 dB)



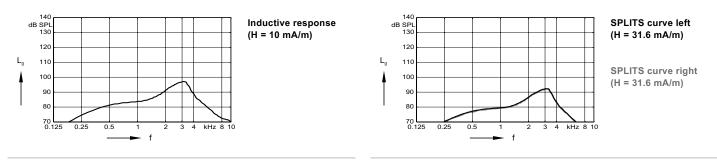
Frequency response

Ear simulator



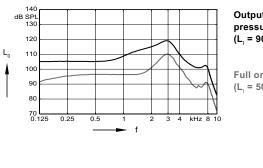


Basic acoustic response $(L_1 = 60 \text{ dB})$



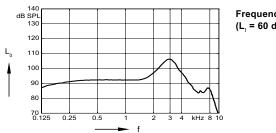
M-Receiver (Closed Click Dome) | Basic Data

2 ccm coupler



Output sound pressure level (L₁ = 90 dB)

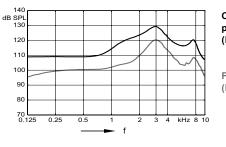
Full on gain (L_I = 50 dB)



Frequency response (L₁ = 60 dB)

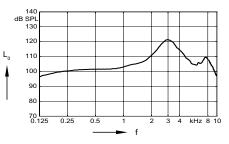
Ear simulator

 L_0

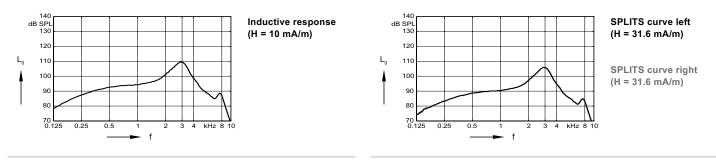


Output sound pressure level (L₁ = 90 dB)

Full on gain (L₁ = 50 dB)

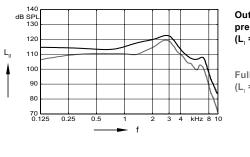


Basic acoustic response (L₁ = 60 dB)



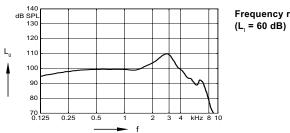
P-Receiver (Click mold) | Basic Data

2 ccm coupler



Output sound pressure level (L₁ = 90 dB)

Full on gain (L = 50 dB)



Frequency response (L₁ = 60 dB)

Ear simulator

120

100

90

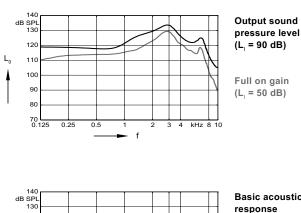
80

70 0.125

0.5

0.25

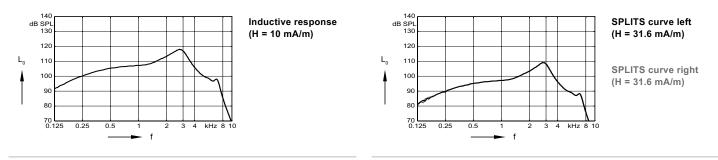
L_o 110



3 4 kHz 8 10

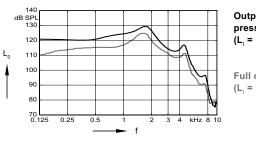
f

Basic acoustic response $(L_1 = 60 \text{ dB})$



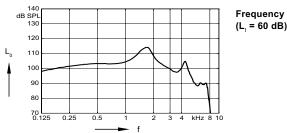
HP-Receiver (Custom Shell) | Basic Data

2 ccm coupler



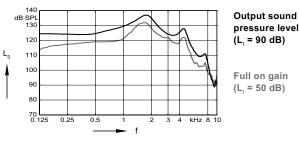
Output sound pressure level (L₁ = 90 dB)

Full on gain (L = 50 dB)



Frequency response (L₁ = 60 dB)

Ear simulator

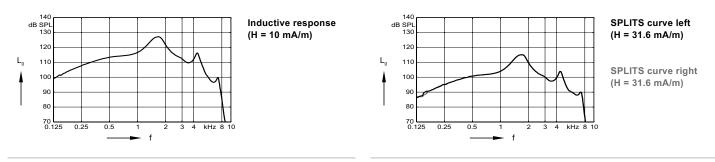


pressure level

Full on gain

140 dB SPL 130 120 L_o 110 100 90 80 70 0.125 0.5 0.25 3 4 kHz 8 f

Basic acoustic response $(L_1 = 60 \text{ dB})$



INTUIS 3 RIC 312 | Features and Accessories

Audiology	
Signal processing (channels) / Gain/MPO (handles)	12 / 6
Hearing programs	4
SpeechMaster	
HD Music (presets)	
TwinPhone ¹⁾	
EchoShield	
Wireless CROS/BICROS ²⁾	
Directionality (channels)	12
Narrow Directionality ¹⁾	
Automatic Directional Microphone	•
Spatial SpeechFocus ¹⁾	
SpeechFocus	
 TruEar™	
Frequency compression	
Extended bandwidth	
Feedback cancellation	•
eWindScreen binaural ¹⁾	
eWindScreen™ (steps)	
Noise Reduction (channels / steps)	
Speech and noise management (steps)	12 / on / off
SoundSmoothing [™] (steps)	
Directional speech enhancement (steps)	
Adaptive streaming volume ³⁾	
SoundBrilliance ^{™ 3)}	
Sound equalizer (classes)	
Spatial Configurator ¹⁾	
Span ⁴⁾	
Direction ⁵⁾	
SoundBalance	
Fitting	
Insitugram	٠
Learning (classes) / Data logging	/ ●
Acclimatization manager	
Tinnitus	
Tinnitus noiser	
Static therapy signal (handles / presets)	_
Ocean Waves therapy signal (presets)	_
Notch therapy	

INTUIS 3 RIC 312 | Features and Accessories

Style Specific Features	
Ingress Protection Rating	IP67
Telecoil	•
AutoPhone™	
Charging contacts	
Battery Size	312
Battery door on/off function	•
Nanocoated housing	٠
e2e wireless™ 3.0	
Audio streaming with easyTek	
User controls coupling via e2e	_
Wireless programming	—
Instrument configurations	
Flat cover	\bigcirc
Rotary volume control	
Push button	0
Rocker switch	•
Color conversion kit	0
Battery door – direct audio input	
Battery door – child lock	_
Small earhook	_
Programming Accessories	
ConnexxAir, ConnexxLink™	
Programming adapter / cable	size 312
Accessories	
miniPocket	\bigcirc
CROS Pure	
eCharger	
easyPocket™	
easyTek	
TV Transmitter (req. easyTek)	
Transmitter (req. easyTek)	
VoiceLink™ (req. easyTek)	
Арр	
easyTek App (req. easyTek)	
touchControl App	0

• available • highest feature performance O optional — not available

¹⁾ req. bilateral fitting and e2e[™] 3.0

²⁾ req. CROS Pure accessory

³⁾ streaming only, req. easyTek[™]

⁴⁾ req. easyTek & easyTek App, touchControl App or Rocker switch

⁵⁾ req. easyTek & easyTek App or touchControl App

Abbreviations and Standards

Abbreviations

The following abbreviations are used in this datasheet:

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

Standards

- ▶ All measurements with the 2 ccm coupler were performed according to ANSI S3.22-2009 and IEC 60118-7:2005 if applicable.
- All measurements with an ear simulator were performed according to IEC 118-0/A1 and to DIN 45605 (frequency range) if applicable.
- Tinnitus noiser measurement conditions: all tinnitus single frequency sliders in max position, master volume slider in default position (0 dB) and local volume control in default position.
- ▶ The following ear pieces were used:
 - S-Receiver Unit and M-Receiver Unit: Closed Click Dome
 - P-Receiver Unit: Click Mold
 - HP-Receiver Unit: Custom Shell

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

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Subject to change without prior notice