

Motion C&G X

Technical Data





Earhook

- 60 dB / 133 dB SPL (2 ccm coupler)
- 67 dB / 138 dB SPL (ear simulator)

ThinTube 3.0

- 60 dB / 125 dB SPL (2 ccm coupler)
- 64 dB / 129 dB SPL (ear simulator)

ThinTube 3.0 P

- 63 dB / 126 dB SPL (2 ccm coupler)
- 68 dB / 131 dB SPL (ear simulator)

Motion C&G X | Technical Data

Туре	Earhook		
	2 ccm coupler	Ear simulator	
Output sound pressure level			
OSPL 90 at 1.6 kHz	-	137 dB SPL	
OSPL 90 (Peak)	133 dB SPL	138 dB SPL	
HFA-OSPL 90	125 dB SPL	-	
Gain			
FOG at 1.6 kHz	-	63 dB	
FOG (peak)	60 dB	67 dB	
HFA-FOG	53 dB	-	
Reference test gain	48 dB	56 dB	
Frequency, noise and directivity			
Frequency range 7X 5X / 3X / 2X / 1X	120 - 7700 Hz 120 - 7700 Hz	940 - 7700 Hz 940 - 7700 Hz	
Equivalent input noise	16 dB SPL	16 dB SPL	
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	4/3/1/1%	4 / 3 / 1 / – %	
Tinnitus Function broadband	70 dB SPL	-	
AI-DI	4.0 dB		
Inductive coil sensitivity			
MASL (1 mA/m) at 1.6 kHz	_	-	
HFA MASL (1 mA/m)		-	
HFA SPLITS (left/right)			
RSETS (left/right)			
HFA SPLIV			
Battery			
Battery runtime (without streaming)	up to 24 h		
Battery runtime (incl. 5 h streaming)	up to 21 h		
IRIL IEC 60118-13:2016 Ed. 4.0			
700-960 MHz (rating)	user		
1400-2000 MHz (rating)	user		
2000-2700 MHz (rating)	user		
ANSI C63.19-2011			
800-950 MHz (rating)	M4		
1600-2500 MHz (rating)	M4		

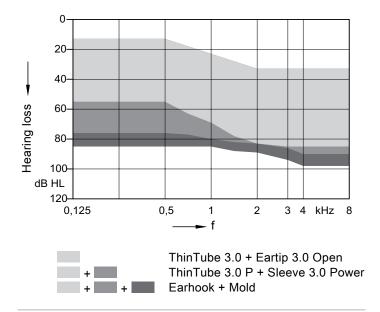
Please find additional information to the values on page "Further Information".

Motion C&G X | Technical Data

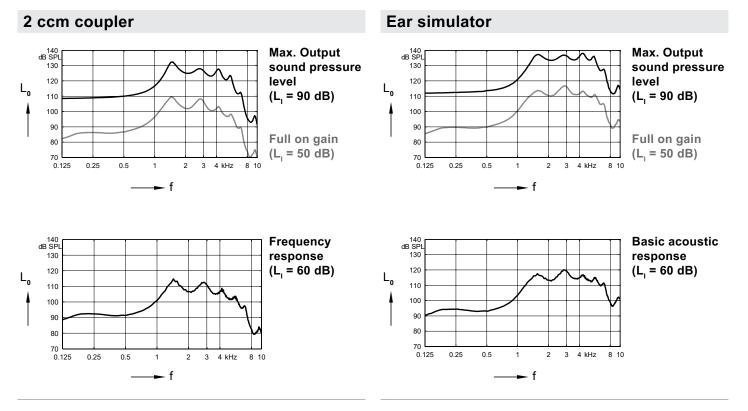
Туре	ThinTu	ThinTube 3.0		ThinTube 3.0 P	
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator	
Output sound pressure level					
OSPL 90 at 1.6 kHz	_	121 dB SPL	-	126 dB SPL	
OSPL 90 (Peak)	125 dB SPL	129 dB SPL	126 dB SPL	131 dB SPL	
HFA-OSPL 90	116 dB SPL	_	121 dB SPL	-	
Gain					
FOG at 1.6 kHz	-	53 dB	-	59 dB	
FOG (peak)	60 dB	64 dB	63 dB	68 dB	
HFA-FOG	50 dB	_	56 dB	-	
Reference test gain	39 dB	45 dB	44 dB	50 dB	
Frequency, noise and directivity					
Frequency range 7X 5X / 3X / 2X / 1X	100 - 8100 Hz 100 - 8100 Hz	100 - 9500 Hz 100 - 8300 Hz	100 - 7200 Hz 100 - 7200 Hz	100 - 7400 Hz 100 - 7400 Hz	
Equivalent input noise	18 dB SPL	19 dB SPL	15 dB SPL	17 dB SPL	
Total harmonic distortion at 500 / 800 / 1600 / 3200 Hz	2/1/1/1%	4 / 2 / 2 / – %	3/1/1/1%	4 / 3 / 1 / – %	
Tinnitus Function broadband	70 dB SPL	_	70 dB SPL	-	
AI-DI	4.0	dB	4.0 dB		
Inductive coil sensitivity					
MASL (1 mA/m) at 1.6 kHz	-	-	-	-	
HFA MASL (1 mA/m)	-	_	_	-	
HFA SPLITS (left/right)	-	_	-	_	
RSETS (left/right)	-	-	-	-	
HFA SPLIV	-	-	-	-	
Battery					
Battery runtime (without streaming)	up to 24 h		up to 24 h		
Battery runtime (incl. 5 h streaming)	up to 21 h		up to 21 h		
IRIL IEC 60118-13:2016 Ed. 4.0					
700-960 MHz (rating)	user		user		
1400-2000 MHz (rating)	user		user		
2000-2700 MHz (rating)	user		us	er	
ANSI C63.19-2011					
800-950 MHz (rating)	Γ.	M4		M4	
1600-2500 MHz (rating)	Ν	14	M4		

Please find additional information to the values on page "Further Information".

Motion C&G X | Fitting Range

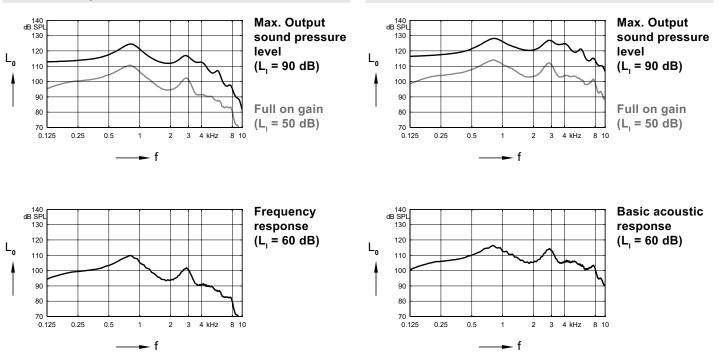


Earhook | Basic Data



ThinTube 3.0 | Basic Data

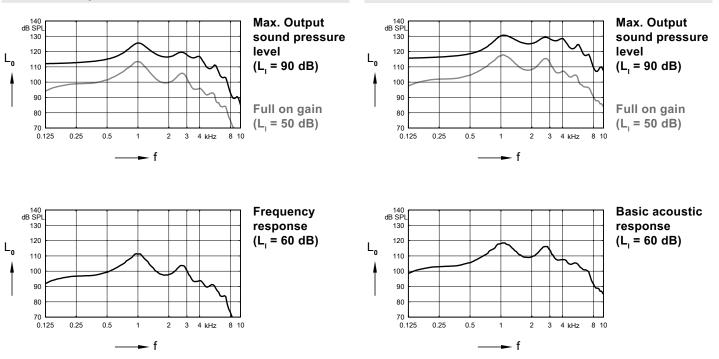
2 ccm coupler



Ear simulator

ThinTube 3.0 P | Basic Data

2 ccm coupler



Ear simulator

Motion C&G X | Features and Accessories

Dynamic Soundscape Processing)Image of the set of th		7X	5X	3X	2X	1X
Sound ClaritySignal processing (channels) / Gain&MPO (handles)Hearing programs66666666777777888999 <th>Dynamic Soundscape Processing</th> <th></th> <th></th> <th></th> <th></th> <th></th>	Dynamic Soundscape Processing					
Signal processing (channels) / Gain&MPO (handles) 48 / 20 32 / 16 24 / 12 16 / 8 16 / 8 Hearing programs 6 6 6 4 4 Extended dynamic range 7 7 7 7 Extended bandwidth 7 7 7 7 Binausi (presets) 3 3 1 1 7 Spect and noise management 7 7 7 7 Speck Quality 7 7 7 7 Directionality (Automati / Adaptive) Binaural Binaural Binaural Binaural 7 7 Spech Quality 7 7 7 7 7 7 Prequency compression 7 7 7 7 7 Spatial Onfigurator 7 7 7 7 7 Spatial Configurator 7 7 7	OVP (Own Voice Processing) 1)				_	_
Hearing programs 6 6 4 4 Extended dynamic range ✓	Sound Clarity					
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Extended bandwidth \checkmark $ -$ EchoShield \checkmark $ -$ HD Music (presets)3311 $-$ eWindScreen 2)BinauralBinauralBinauralMonaural $-$ Speech and noise management \checkmark \checkmark \checkmark \checkmark \checkmark SoundSmoothing \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark Seech and noise management \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark SoundSmoothing \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark Seech Quality \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark Directionality (Automatic / Adaptive)BinauralBinauralBinaural \checkmark \checkmark \checkmark Spatial SpeechFocus ^{11,3} \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark Vearer Interaction \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark Signia App (iOS and Android) \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark Spatial Configurator \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark Innitusnoise therapy signal \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark Tinnitus noise therapy signal \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark SituGramnade for induces \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark <	Hearing programs	6	6	6	4	4
EchoShield✓————HD Music (presets)3311—eWindScreen 2)BinauralBinauralMonauralMonaural—Speech and noise management✓✓✓✓✓SoudSmoothing✓✓✓✓✓✓Feedback cancellation✓✓✓✓✓✓Directonality (Automatic / Adaptive)BinauralBinauralBinaural✓✓✓Spatial SpeechFocus ^{1) 3)} ✓✓✓✓✓✓TwinPhone ¹⁾ ✓✓✓✓✓✓Signia App (iOS and Android)✓✓✓✓✓✓Spatial Configurator✓✓✓✓✓✓Adaptive Streaming✓✓✓✓✓✓Made for iPhone✓✓✓✓✓✓Tinnitus✓✓✓✓✓✓Notched Amplification Therapy✓✓✓✓✓Tinnitus noise therapy signal✓✓✓✓✓Fittig✓✓✓✓✓✓AutoFit✓✓✓✓✓✓AutoFit✓✓✓✓✓✓Remote Services✓✓✓✓✓✓Storage✓✓✓✓✓✓Innitus✓✓ <t< td=""><td>Extended dynamic range</td><td>✓</td><td>√</td><td>1</td><td>1</td><td>1</td></t<>	Extended dynamic range	✓	√	1	1	1
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Speech and noise management✓✓✓✓✓SoundSmoothing✓✓✓✓✓✓Feedback cancellation✓✓✓✓✓✓Speech QualityDirectionality (Automatic / Adaptive)BinauralBinauralBinaural✓✓✓Spatial SpeechFocus 'I '3'✓✓✓✓✓✓✓✓TwinPhone 'I✓✓	HD Music (presets)	3	3	1	1	
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Directionality (Automatic / Adaptive)BinauralBinauralBinauralBinauralBinauralBinauralImage: Constraint of the con	Feedback cancellation	\checkmark	1	1	1	1
Spatial SpeechFocus ^{11 3)} Image: Constraint of the speech focus ^{11 3)}	Speech Quality					
TwinPhone 1)Image: CompressionImage: CompressionImage: CompressionImage: CompressionImage: CompressionSignia App (iOS and Android)Image: CompressionImage: CompressionImage: CompressionImage: CompressionSignia App (iOS and Android)Image: CompressionImage: CompressionImage: CompressionImage: CompressionSpatial ConfiguratorImage: CompressionImage: CompressionImage: CompressionImage: CompressionAdaptive Streaming Volume 4)Image: CompressionImage: CompressionImage: CompressionImage: CompressionDirect StreamingImage: CompressionImage: CompressionImage: CompressionImage: CompressionImage: CompressionMade for iPhoneImage: CompressionImage: CompressionImage: CompressionImage: CompressionImage: CompressionMade for iPhoneImage: CompressionImage: Compres	Directionality (Automatic / Adaptive)	Binaural	Binaural	Binaural	1	1
Frequency compressionIIIIIWearer InteractionIIIIISignia App (iOS and Android)IIIIIISpatial ConfiguratorIIIIIIAdaptive Streaming Volume 4)IIIIIIDirect StreamingIIIIIIMade for iPhoneIIIIIITinnitusIIIIIINotched Amplification TherapyIIIIITinnitus noise therapy signalIIIIIIIIIIIIISmart Optimizer and Data LoggingIIIIIIAcclimatization managerIIIIIIAutoFitIIIIIIIRemote ServicesIIIIIII	Spatial SpeechFocus ^{1) 3)}	\checkmark	\checkmark	_	_	
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Direct StreamingIIIIIMade for iPhoneIIIIITinnitusIIIIINotched Amplification TherapyIIIIITinnitus noise therapy signalIIIIIFittingIIIIIISmart Optimizer and Data LoggingIIIIIAcclimatization managerIIIIIInSituGramIIIIIIRemote ServicesIIIIIIInster ServicesIIIIIIInster ServicesIIIIIIInster ServicesIIIIIIInster Services <tdi< td="">IIIIIInster Services<tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td="">Inster Services<tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td="">Inster Services<tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td="">Inster Services<tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td=""><tdi< td="">Inster Services<tdi< td=""><tdi< td="">Inster Services<tdi< td=""><tdi< td="">Inster Services<tdi< t<="" td=""><td>Spatial Configurator</td><td>\checkmark</td><td>\checkmark</td><td>_</td><td>_</td><td></td></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<></tdi<>	Spatial Configurator	\checkmark	\checkmark	_	_	
Made for iPhoneIIIITinnitusIIIIINotched Amplification TherapyIIIIITinnitus noise therapy signalIIIIIFittingIIIIIISmart Optimizer and Data LoggingIIIIIAcclimatization managerIIIIIInSituGramIIIIIAutoFitIIIIIRemote ServicesIIIII	Adaptive Streaming Volume ⁴⁾	\checkmark	\checkmark	1	1	\checkmark
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Notched Amplification TherapyImage: Constraint of the rapy signalImage: Const	Made for iPhone	\checkmark	\checkmark	1	1	1
Tinnitus noise therapy signalImage: Constraint of the servicesImage: Constraint of the service of the	Tinnitus	\checkmark	\checkmark	\checkmark	\checkmark	
FittingImage: Constraint of the second s	Notched Amplification Therapy	\checkmark	\checkmark	1	1	_
Smart Optimizer and Data LoggingImage: Comparison of the system of the syst	Tinnitus noise therapy signal	\checkmark	\checkmark	1	1	_
Acclimatization managerImage: Image: Ima	Fitting	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
InSituGramImage: Image: Im	Smart Optimizer and Data Logging	\checkmark	\checkmark	\checkmark	1	\checkmark
AutoFitImage: Image: Image	Acclimatization manager	\checkmark	\checkmark	\checkmark	1	\checkmark
TeleCareImage: Image: Imag	InSituGram	\checkmark	\checkmark	1	1	1
Remote Services \checkmark \checkmark \checkmark \checkmark \checkmark	AutoFit	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	TeleCare	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Signia App 🗸 🗸 🏑 🏑 🗸	Remote Services	\checkmark	\checkmark	\checkmark	1	\checkmark
	Signia App	\checkmark	\checkmark	\checkmark	1	1

req. bilateral fitting
Binaural used in dedicated programs for 5X
for 5X, right / left directionality available only in Stroll Program and via the Spatial Configurator

4) streaming only

highest feature performance

✓ available — not available O optional

Motion C&G X | Features and Accessories

	7X / 5X / 3X	2X / 1X
Style specific features		
Ingress Protection Rating	IP68	IP68
Charging contacts	✓	\checkmark
Battery Size		_
Battery door on/off function		_
Nanocoated housing	✓	\checkmark
e2e wireless 3.0	✓	\checkmark
User controls coupling via e2e	✓	\checkmark
Wireless programming	✓	\checkmark
Instrument configurations		
Flat cover	_	_
Rotary volume control		_
Push button		_
Rocker switch	✓	\checkmark
Color conversion kit	0	0
Color conversion kit with T-Coil	_	—
T-Coil	_	—
Battery door – child lock	_	—
Small earhook	0	0
Programming accessories		
ConnexxAir / ConnexxLink	<u> </u>	<u> </u>
Noahlink Wireless	0	0
Programming adapter / cable	_	_
Accessories		
Inductive Charger II	Mandatory	Mandatory
miniPocket	0	0
StreamLine TV	0	0
StreamLine Mic	0	0
CROS Pure 312 X	0	
CROS Pure Charge&Go X	0	—
CROS Silk X	<u> </u>	_

✓ available — not available O optional

Motion C&G X | Further information

Abbreviations

The following abbreviations are used in this datasheet:

SPL	Sound Pressure Level
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
SPLIV	SPL In a Vertical magnetic field
AI-DI	Articulation Index - Directivity Index
IRIL	Input Related Interference Level
RTF	Reference Test Frequency

Standards and additional information

- All measurements with the 2 ccm coupler were performed according to ANSI S3.22-2014 and IEC 60118-0:2015 if applicable.
- All measurements with an ear simulator were performed according to IEC 118-0/A1:1994 and to DIN 45605 (frequency range) if applicable.
- Curves and figures representing FOG are measured with 20 dB reduction and 70 dB SPL input level.
- Figures representing Equivalent Input Noise incorporate a moderate expansion.
- 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.
- ▶ Inductive coil sensitivity values, inductive response curves and T ratings apply for instruments with telecoil only.
- The current consumption is measured in reference test setting (RTS) according to the applicable standards. Due to the settling behaviour of hearing instruments supporting RF (radio frequency), the battery current is measured 3 minutes after turning on (note: no pairing).
- The battery runtime is based on first fit settings using 60 % of the fitting range and an ISTS (International Speech Test Signal) input signal at 65 dB SPL (note: pairing established). The actual battery runtime is determined by battery quality, hearing loss, sound environment, usage and activated feature set. Regarding RF usage (Bluetooth streaming) two different conditions are considered.
- Extended bandwidth up to 12 kHz for 7X devices only.
- ▶ The following acoustic connections / ear pieces were used:
 - Earhook
 - ThinTube 3.0
 - ThinTube 3.0 P

Special note for instruments with built-in lithium-ion rechargeable battery

The runtime of all lithium-ion rechargeable batteries reduces over time. The estimates are based on fresh lithium-ion rechargeable battery capacity. Under normal operating conditions, the battery will retain up to 80 % of its initial capacity after 2 years of use. Please note that battery performance will vary depending on individual usage patterns and environmental conditions.



"Made for iPod", "Made for iPhone", and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

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.

Legal Manufacturer

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Subject to change without prior notice

Choking hazard posed by small parts.

▶ This instrument is not intended for the fitting of infants, children under 3 years or persons of mental incapacity.

Instrument has an output sound pressure level of 132 dB SPL or more. Risk of impairing the residual hearing of the user.

▶ Take special care when fitting this instrument.

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