

Product information



Neo 102 BTE


Neo 112 BTE

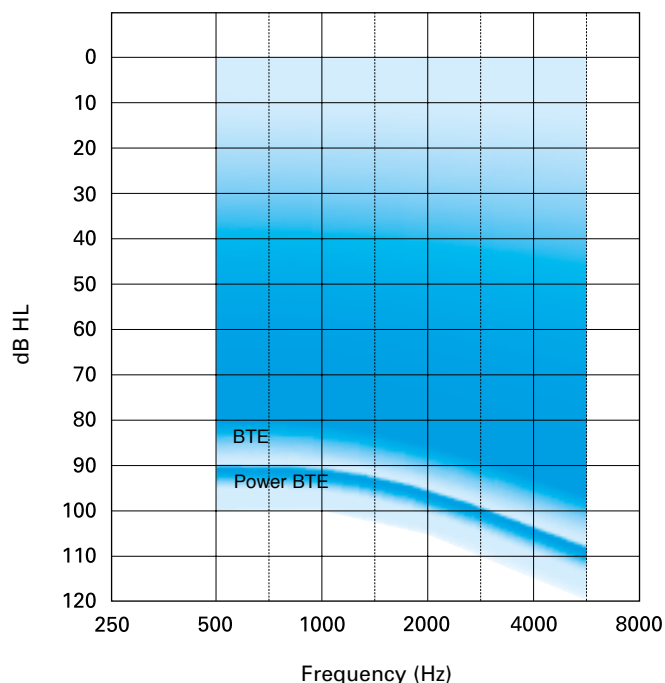
Neo 105 BTE DM



Neo, high-end benefits in entry level digital. The perfect combination of high technology, design and value.

Features to maximize client satisfaction

- 5 channels
- OpenFit™ 
- Adaptive Feedback Cancellation
- Adaptive Noise Reduction in 8 frequency bands
- Directional microphone system with active microphone matching (on 105 BTE DM)
- Multiple listening programs
- Soft Noise Management™
- Programmable beep indicators
- Telecoil boost
- Push button control of hearing instrument functions
- Rotary volume control
- FM compatibility
- ON/OFF function on battery drawer



Neo 102 BTE

A compact BTE with a size 13 battery, for mild to severe hearing losses.



Neo 105 BTE DM

A compact BTE with a size 13 battery and directional microphone technology, for mild to severe hearing losses.



Neo 112 BTE

A compact power BTE with a size 13 battery, for mild to severe/profound hearing losses.

Neo information

Neo BTE								
		102 BTE		112 BTE		105 BTE DM		
		IEC 60118-7 (2cc)	IEC 60118-0 (Ears.)	IEC 60118-7 (2cc)	IEC 60118-0 (Ears.)	IEC 60118-7 (2cc)	IEC 60118-0 (Ears.)	
Output	OSPL 90, Peak	dB SPL	123	128	132	136*	123	127
	OSPL 90, 1600 Hz,	dB SPL	115	123	122	130	113	121
	HFA OSPL 90, ANSI	dB SPL	118	—	126	—	113	—
Gain	Full-On Gain, Peak	dB	60	64	71	76	60	66
	Full-On Gain, 1600 Hz	dB	51	59	60	68	49	59
	HFA Full-On Gain, ANSI	dB	55	—	65	—	50	—
	Reference Test Gain, IEC	dB	39	48	47	55	38	46
	Reference Test Gain, ANSI	dB	41	—	49	—	36	—
Current	Quiescent Current	mA	1.0	1.0	1.1	1.1	1.0	1.0
	Operating Current, IEC	mA	1.0	1.0	1.2	1.2	1.0	1.0
	Operating Current, ANSI	mA	1.0	—	1.2	—	1.0	—
	Battery type		13		13		13	
Distortion	500/800/1600 Hz typ., IEC	%	<1 / <1 / <1	<1 / <1 / <1	<1 / <1 / <1	<1 / <1 / <1	<1 / <1 / <1	<2 / <1 / <1
	500/800/1600 Hz typ., ANSI	%	<1 / <1 / <1	—	<1 / <1 / <1	—	<1 / <1 / <1	—
General Information	Frequency Range, ANSI	Hz	130–6250	—	140–6000	—	100–7000	—
	Equiv. Input Noise, IEC/ANSI ¹⁾	dB	19/14		20/15		19/19	
	Telecoil 1 mA/m 1600 Hz, IEC	dB SPL	85	92	88	96	82	91
	Telecoil HFA SPLITS, ANSI	dB SPL	103	—	111	—	95	—
Additional Information	Colors		beige / grey brown / grey / brown		beige / grey brown / grey / brown		beige / grey brown / grey / brown	
	Earhook		8 dB (std.), 0 dB (opt)		8 dB (std.), 0 dB (opt)		8 dB (std.), 0 dB (opt)	
	Childrens Earhook		8 dB (opt), 0 dB (opt)		8 dB (opt), 0 dB (opt)		8 dB (opt), 0 dB (opt)	
	SPIRA Thin Sound Tube 0.9		optional		optional		optional	
	Telecoil boost		yes		yes		yes	
	Push button		P1, P2, T or MT		P1, P2, T or MT		P1, P2, T or MT	
	FM Communication		available		available		available	
	DAI		yes		yes		yes	
	Volume control		yes		yes		yes	
AI-DI	0°/max. dB	—		—		2.9/3.1		

¹⁾ Technical data measured with expansion, corresponding to Soft Noise Management™ level 3.

All measurements are made according to IEC 60118 if not otherwise mentioned. ANSI refers to ANSI S3.22-1996.

The Full-On Gain setting can be programmed into the instrument from OASIS plus for verification purposes.

All measurements are based on earhook without filter.

Directionality measured on Kemar®. AI-DI relative to 0° and relative to maximal polar sensitivity, calculated for the horizontal plane.

*Special care should be exercised in selecting and fitting a hearing aid whose maximum sound pressure level exceeds 132 dB, as measured with an IEC 60711: 1981 occluded ear simulator, because there may be risk of impairing the remaining hearing of the hearing instrument user.

Programming

Neo is programmed with OASIS plus, Bernafon's outstanding fitting software.

OASIS plus is a NOAH compatible, MS-Windows based PC-Fitting software.

The connection is made through a HiPro interface, the Bernafon programming cable and a programming adapter.

Or, through the NOAHlink interface, the Bernafon programming cable for NOAHlink and a programming adapter.

System requirements:

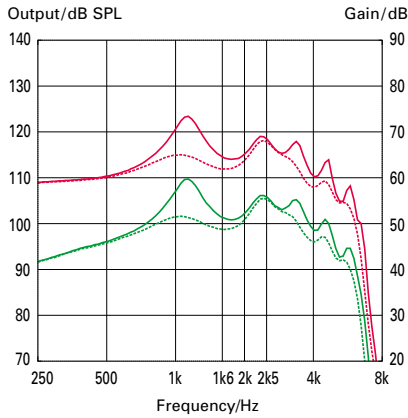
NOAH 3 with Hi-Pro or NOAHlink,

programming cables and programming adapters.



Frequency responses

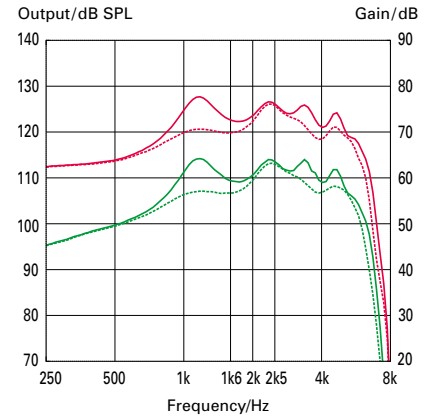
IEC 60118-7 2cc Coupler (IEC 60126)



Neo 102 BTE

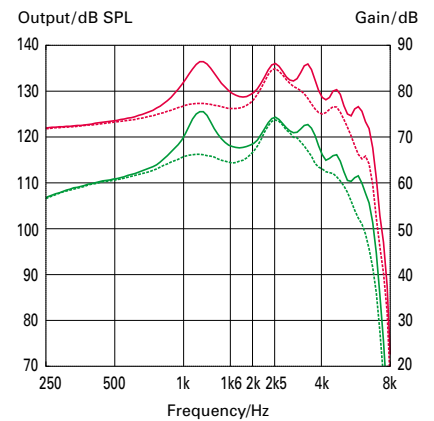
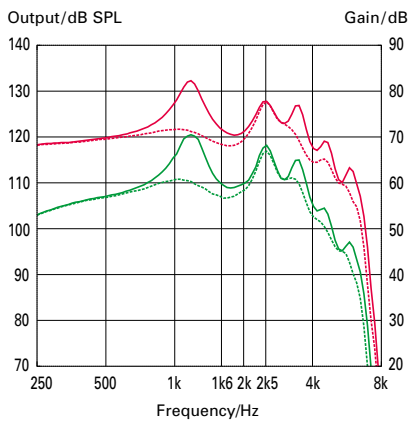
Output OSPL 90
Full-On Gain

IEC 60118-0 Earsimulator (IEC 60711)



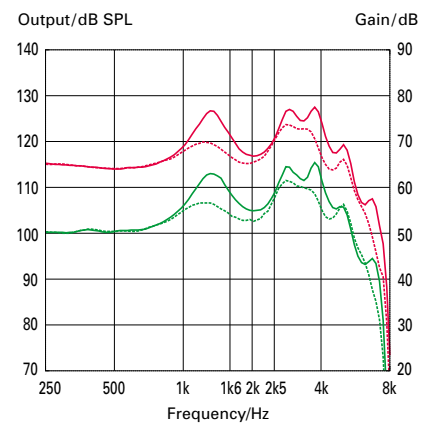
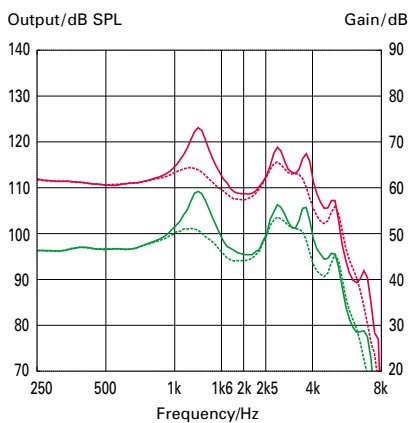
Neo 112 BTE

Output OSPL 90
Full-On Gain



Neo 105 BTE DM

Output OSPL 90
Full-On Gain



— Measurements based on earhook without filter
- - - Measurements based on earhook with filter

DAI/FM Communication



FMA3 Adapter

REF. N° 399-50-570-00

For FM communication systems only



DAI3 Adapter

REF. N° 399-50-580-00

For connection to Hi-Fi, TV set, PC, etc.

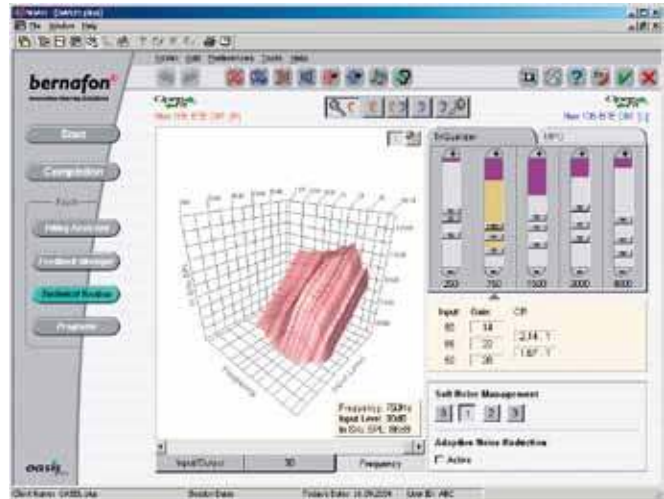
Fitting in OASIS plus

A high performance fitting software platform to ensure a perfect fit every time.

All Neo hearing instruments are fit with OASIS plus, the reliable hearing instrument fitting software from Bernafon.

Intelligent software makes your job easier.

- First fit in as few as 3 mouse clicks
- Fine control for each channel for greater adjustment precision. The TriQualizer™ combines adjustment of the gain and compression ratio for 3 different input levels in one intuitive control for each channel
- Interactive fine-tuning to support the dialog with your client
- COSI for counseling and ensuring that your client's goals are met
- NOAHlink compatibility
- Standard cables and adapters
- Unified fitting flow with all Bernafon digital hearing instruments



Neo and OASIS plus, the perfect combination of advanced hearing instruments and high performance fitting software.

Programming cable attachment



Programming cables:

Nr. 2, NEW STANDARD (HiPro)
Blue, left REF. N° 384-20-033-00
Red, right REF. N° 384-20-032-00

Programming cables:

Nr. 2, NEW STANDARD (NOAHlink)
Blue, left REF. N° 384-20-035-00
Red, right REF. N° 384-20-034-00



Programming adapter

Programming adapter REF. N° 390-01-151-00

Manufacturer

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SWISS 
Engineering

bernafon 
Your hearing • Our passion

Product information



Neo 202 ITE

Neo 322 ITC

Neo 301 ITC/Neo 302 ITC


Neo 401 CIC/Neo 411 MC

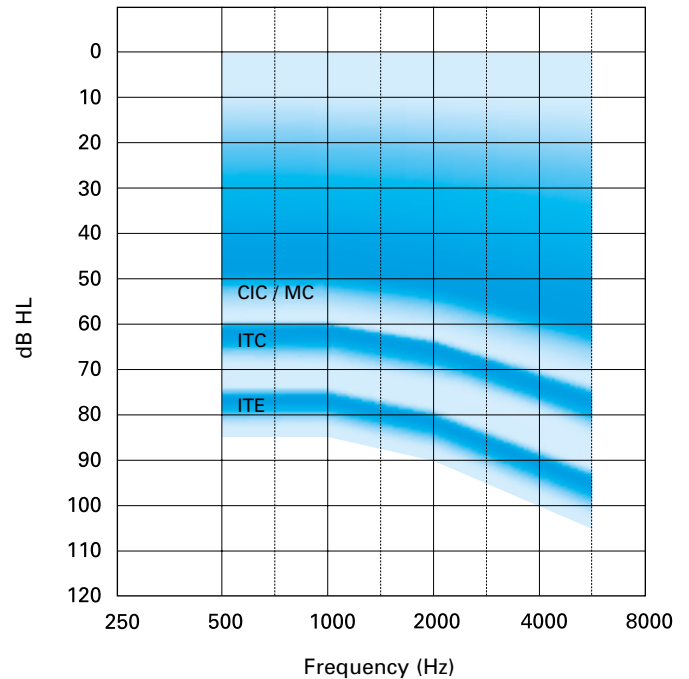
Neo 315 ITC DM



Neo, high-end benefits in entry-level digital. The perfect combination of high technology, design and value.

Features to maximize client satisfaction

- 5 channels
- OpenFit™ 
- Adaptive Feedback Cancellation
- Adaptive Noise Reduction in 8 frequency bands
- Directional microphone system with active microphone matching (on 315 ITC DM)
- Multiple listening programs
- Soft Noise Management™
- Programmable beep indicators
- Automatic telecoil (optional except 401/411)
- Telecoil boost (optional except 401/411)
- Push button control of hearing instrument functions



Neo 202 ITE

A power concha instrument with a size 13 battery and rotary volume control, for moderate to severe hearing losses.



Neo 322 ITC/315 ITC DM/302 ITC

A canal instrument with a size 312 battery and rotary volume control, for mild to moderately-severe hearing losses. Dual microphone technology on 315 ITC DM.



Neo 301 ITC

A small canal instrument with a size 312 battery, for mild to moderate hearing losses.



Neo 411 MC

Mini canal instrument with a size 10 battery, for mild to moderate hearing losses.



Neo 401 CIC

Completely in the canal instrument with a size 10 battery, for mild to moderate hearing losses.

Neo information

Neo ITE								
		202 ITE		322 ITC		302 ITC		
		IEC 60118-7 (2cc)	IEC 60118-0 (Ears.)	IEC 60118-7 (2cc)	IEC 60118-0 (Ears.)	IEC 60118-7 (2cc)	IEC 60118-0 (Ears.)	
Output	OSPL 90, Peak	dB SPL	120	129	114	124	110	120
	OSPL 90, 1600 Hz	dB SPL	112	120	105	113	103	111
	HFA OSPL 90, ANSI	dB SPL	114	—	106	—	104	—
Gain	Full-On Gain, Peak	dB	53	62	44	56	40	50
	Full-On Gain, 1600 Hz	dB	43	52	33	41	31	39
	HFA Full-On Gain, ANSI	dB	45	—	34	—	32	—
	Reference Test Gain, IEC	dB	36	45	26	34	23	32
	Reference Test Gain, ANSI	dB	39	—	32	—	29	—
Current	Quiescent Current	mA	1.0	1.0	1.0	1.0	1.0	1.0
	Operating Current, IEC	mA	1.1	1.1	1.0	1.0	1.0	1.0
	Operating Current, ANSI	mA	1.1	—	1.0	—	1.0	—
	Battery type		13		312		312	
Distortion	500/800/1600 Hz typ., IEC	%	<1 / <1 / <1	<1 / <1 / <1	<1 / <1 / <1	<1 / <1 / <1	<1 / <1 / <1	<1 / <1 / <1
	500/800/1600 Hz typ., ANSI	%	<1 / <1 / <1	—	<1 / <1 / <1	—	<1 / <1 / <1	—
General Information	Frequency Range, ANSI	Hz	110–5800	—	100–7200	—	100–6000	—
	Equiv. Input Noise, IEC/ANSI ¹⁾	dB	19/18		21/20		21/20	
	Telecoil 1 mA/m 1600 Hz, IEC	dB SPL	73	82	62	71	61	70
	Telecoil HFA SPLITS, ANSI	dB SPL	97	—	90	—	83	—
Additional Information	Colors		beige / pink / brown / dark brown		beige / pink / brown / dark brown		beige / pink / brown / dark brown	
	Programmable Telecoil		optional		optional		optional	
	Automatic Telecoil		optional		optional		optional	
	Push button		P1, P2, T or MT		P1, P2, T or MT		P1, P2, T or MT	
	Volume Control		yes		yes		yes	

¹⁾ Technical data measured with expansion, corresponding to Soft Noise Management™ level 3.

All measurements are made according to IEC 60118 if not otherwise mentioned. ANSI refers to ANSI S3.22-1996. The Full-On Gain setting can be programmed into the instrument from OASIS plus for verification purposes.

Programming

Neo is programmed with OASIS plus, Bernafon's outstanding fitting software. OASIS plus is a NOAH compatible, MS-Windows based PC-Fitting software. The connection is made through a HiPro interface, the Bernafon programming cable and a programming adapter. Or, through the NOAHlink interface, the Bernafon programming cable for NOAHlink and a programming adapter.

System requirements:

NOAH 2.0 or NOAH 3 with HiPro or NOAHlink, programming cables and programming adapters.a



Neo information

Neo ITE								
		315 ITC DM		301 ITC		411 MC 401 CIC		
		<i>IEC 60118-7 (2cc)</i>	<i>IEC 60118-0 (Ears.)</i>	<i>IEC 60118-7 (2cc)</i>	<i>IEC 60118-0 (Ears.)</i>	<i>IEC 60118-7 (2cc)</i>	<i>IEC 60118-0 (Ears.)</i>	
Output	OSPL 90, Peak	dB SPL	113	122	110	120	104	114
	OSPL 90, 1600 Hz	dB SPL	104	113	103	111	97	105
	HFA OSPL 90, ANSI	dB SPL	106	—	104	—	98	—
Gain	Full-On Gain, Peak	dB	43	54	40	50	34	45
	Full-On Gain, 1600 Hz	dB	34	43	31	39	25	33
	HFA Full-On Gain, ANSI	dB	36	—	32	—	27	—
	Reference Test Gain, IEC	dB	27	36	23	32	18	26
	Reference Test Gain, ANSI	dB	31	—	29	—	23	—
Current	Quiescent Current	mA	1.0	1.0	1.0	1.0	0.8	0.8
	Operating Current, IEC	mA	1.0	1.0	1.0	1.0	0.8	0.8
	Operating Current, ANSI	mA	1.0	—	1.0	—	0.9	—
	Battery type		312		312		10	
Distortion	500/800/1600 Hz typ., IEC	%	<2 / <1 / <1	<2 / <2 / <1	<1 / <1 / <1	<1 / <1 / <1	<1 / <1 / <1	<1 / <1 / <1
	500/800/1600 Hz typ., ANSI	%	<2 / <1 / <1	—	<1 / <1 / <1	—	<1 / <1 / <1	—
General Information	Frequency Range, ANSI	Hz	100–6200	—	100–6000	—	100–6000	—
	Equiv. Input Noise, IEC/ANSI ¹⁾	dB	23/22		21/20		22/21	
	Telecoil 1 mA/m 1600 Hz, IEC	dB SPL	68	77	61	70	—	—
	Telecoil HFA SPLITS, ANSI	dB SPL	89	—	83	—	—	—
Additional Information	Colors		beige / pink / brown / dark brown		beige / pink / brown / dark brown		beige / pink / brown / dark brown	
	Programmable Telecoil		optional		optional		—	
	Automatic Telecoil		optional		optional		—	
	Push button		P1, P2, T or MT		P1, P2, T or MT		P1, P2 (optional)	
	Volume Control		yes		—		—	
	AI-DI	0° / max. dB	4.8/6.2		—		—	

¹⁾ Technical data measured with expansion, corresponding to Soft Noise Management™ level 3.

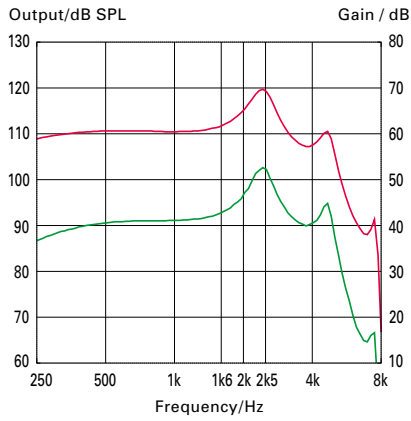
All measurements are made according to IEC 60118 if not otherwise mentioned. ANSI refers to ANSI S3.22-1996.

The Full-On Gain setting can be programmed into the instrument from OASIS plus for verification purposes.

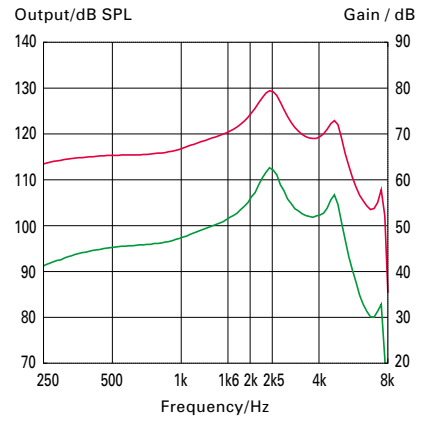
Directionality measured on Kemar®. AI-DI relative to 0° and relative to maximal polar sensitivity calculated for the horizontal plane.

Frequency responses

**IEC 60118-7
2cc Coupler
(IEC 60126)**

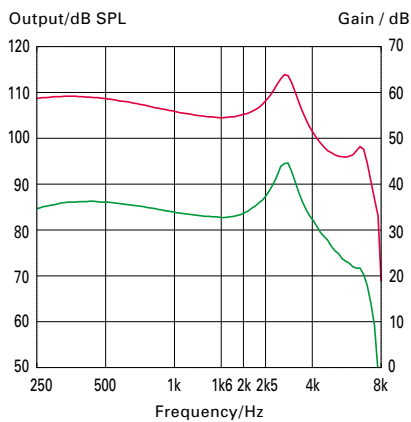


**IEC 60118-0
Earsimulator
(IEC 60711)**



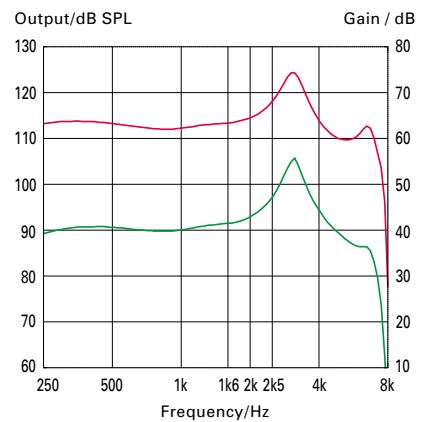
Neo 202 ITE

Output OSPL 90
Full-On Gain



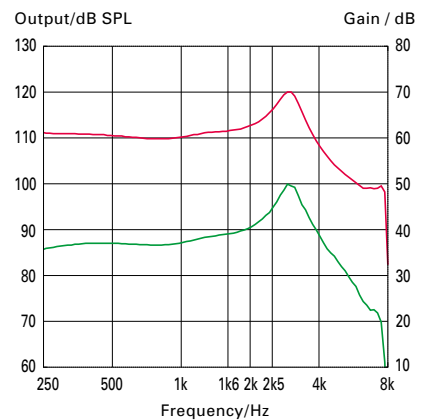
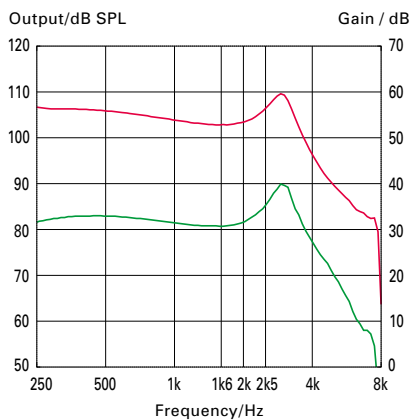
Neo 322 ITC

Output OSPL 90
Full-On Gain



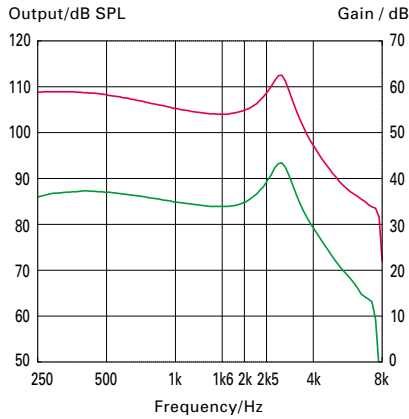
Neo 302 ITC

Output OSPL 90
Full-On Gain



Frequency responses

**IEC 60118-7
2cc Coupler
(IEC 60126)**

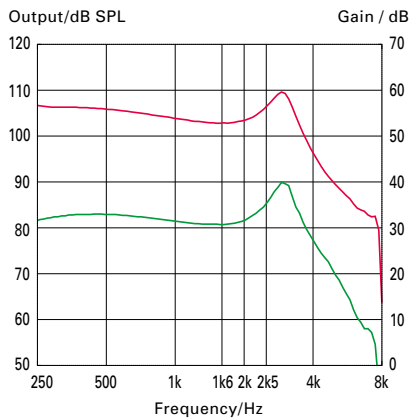
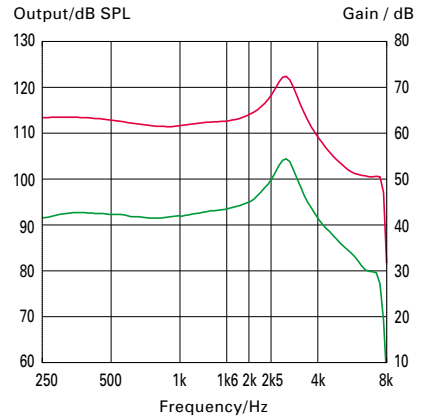


Neo 315 ITC DM

Output OSPL 90
Full-On Gain

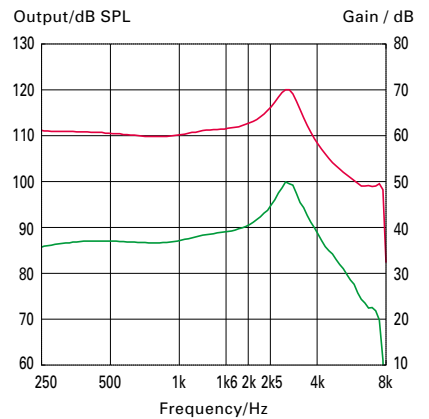


**IEC 60118-0
Earsimulator
(IEC 60711)**



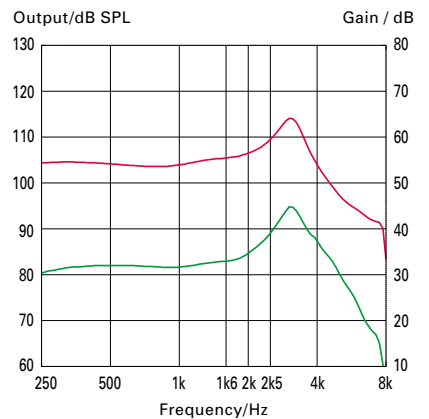
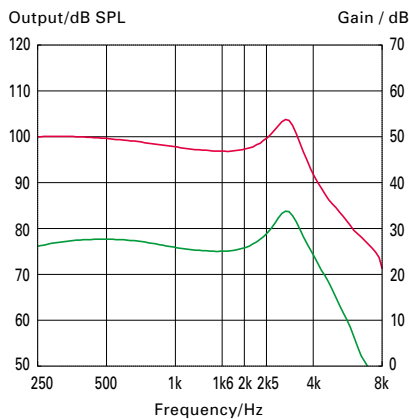
Neo 301 ITC

Output OSPL 90
Full-On Gain



**Neo 411 MC
Neo 401 CIC**

Output OSPL 90
Full-On Gain



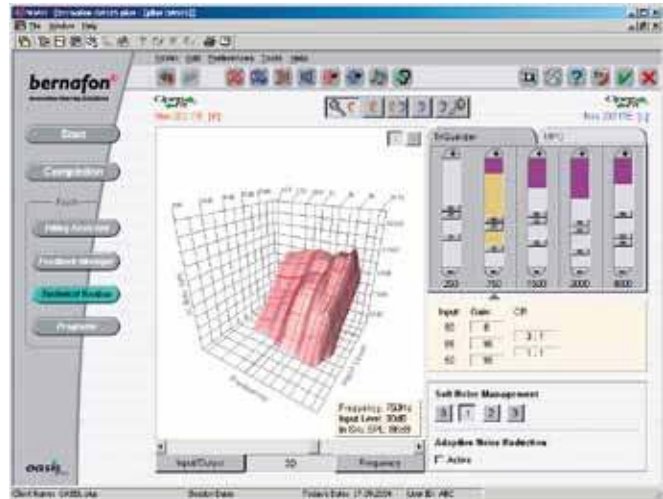
Fitting in OASIS plus

A high performance fitting software platform to ensure a perfect fit every time.

All Neo hearing instruments are fit with OASIS plus, the reliable hearing instrument fitting software from Bernafon.

Intelligent software makes your job easier.

- First fit in as few as 3 mouse clicks
- Fine control for each channel for greater adjustment precision. The TriQualizer™ combines adjustment of the gain and compression ratio for 3 different input levels in one intuitive control for each channel
- Interactive fine-tuning to support the dialog with your client
- COSI for counseling and ensuring that your client's goals are met
- NOAHlink compatibility
- Standard cables and adapters
- Unified fitting flow with all Bernafon digital hearing instruments



Neo and OASIS plus, the perfect combination of advanced hearing instruments and high performance fitting software.

Programming cable attachment

Programming cables:

Nr. 2, NEW STANDARD (HiPro)
Blue, left REF. N° 384-20-033-00
Red, right REF. N° 384-20-032-00



Programming adapter for all ITE's

FlexConnect REF. N° 390-01-180-05

Programming cables:

Nr. 2, NEW STANDARD (NOAHlink)
Blue, left REF. N° 384-20-035-00
Red, right REF. N° 384-20-034-00

Manufacturer

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Engineering

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Your hearing • Our passion