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# Technical Data

## Nitro<sup>®</sup> micon<sup>™</sup> Customs (7/3mi)

### Description

- Appropriate for mild to moderate hearing losses
- Highly flexible digital signal processing and programming:  
48-channel – **7mi**, 24-channel – **3mi**, ITE, ITC/HS, CIC

### Audiological Features with BestSound Technology

#### *miFocus*

- Automatic and multi-channel high resolution adaptive directional microphone system; 48-channels – **7mi**, 24-channels – **3mi**
- 48-channel AGC-I 48-channel AGC-O system with 20 handles – **7/5mi**, 24-channel AGC-I 24-channel AGC-O system with 12-handles – **3mi**
- Frequency Compression

#### *miSound*

- Feedback Cancellation
- micon Speech and Noise Management: 7-steps – **7mi**, 3-steps – **3mi**
- micon SoundSmoothing<sup>®</sup> transient noise reduction: 3-steps – **7mi**, on/off – **3mi**
- micon eWindScreen<sup>®</sup>, wind noise reduction system: 3-steps – **7mi**, on/off – **3mi**
- micon SoundBrilliance<sup>™</sup>: 3-steps – **7mi**
- Tinnitus Therapy feature: 20-channels – **7mi**, 12-channels – **3mi**

#### *miGuide*

- Sound equalization: 6-classes – **7mi**
- micon Learning 6-classes – **7mi**, 1-class – **3mi**
- Data Logging
- micon fit
- Acclimatization Manager – **7mi**

### Standard Features

- Extended bandwidth – **7mi**
- Battery compartment with on/off function

### Optional Features

- Binaural synchronization with e2e wireless<sup>®</sup> 2.0
- Push button- **CIC**, Push button & VC – **ITC/HS**, **ITE**
- AutoPhone<sup>®</sup> – **ITC/HS**, **ITE**
- Telecoil – **ITC/HS**, **ITE**

### Accessories

- miniTek<sup>®</sup> wireless enhancement system
- Tek<sup>®</sup> wireless enhancement system
- EasyPocket<sup>™</sup>
- ePen<sup>®</sup> remote control
- ProPocket<sup>™</sup>
- ConnexLink<sup>®</sup> for wireless programming



Life sounds brilliant.

# Nitro 7/3mi · Technical Data

Type	CIC		ITC/HS		ITE	
	118/55	130/71	118/55	130/71	123/60	130/71
2 ccm coupler – Standard ANSI S3.22-2009						
<b>Output Sound Pressure Level</b>						
Peak	118 dB	130 dB	118 dB	130 dB	123 dB	130 dB
HF-Average OSPL 90	111 dB	122 dB	111 dB	125 dB	118 dB	124 dB
<b>Gain (Input 50 dB)</b>						
Peak	55 dB	71 dB	55 dB	71 dB	60 dB	71 dB
HF-Average	43 dB	65 dB	46 dB	64 dB	54 dB	63 dB
Reference Test Gain 7mi	34 dB	45 dB	34 dB	48 dB	41 dB	48 dB
<b>Frequency Range</b>						
7mi	100 - 8500 Hz	100 - 6000 Hz	100 - 7800 Hz	100 - 5900 Hz	100 - 6000 Hz	100 - 5900 Hz
3mi	100 - 8100 Hz	100 - 6000 Hz	100 - 7800 Hz	100 - 5900 Hz	100 - 6000 Hz	100 - 5900 Hz
<b>Total Harmonic Distorsion</b>						
500 Hz	1%	1%	2%	3%	2%	2%
800 Hz	1%	1%	2%	2%	2%	2%
1600 Hz	1%	1%	2%	1%	2%	1%
<b>Equivalent Input Noise</b>						
	24 dB	24 dB	20 dB	24 dB	19 dB	21 dB
<b>Inductive Coil Sensitivity</b>						
HFA Splits <sup>1</sup> (Left / Right)	–	–	93 / 93 dB	106 / 106 dB	100 / 100 dB	106 / 106 dB
RSETS <sup>2</sup> (Left / Right)	–	–	-1 / -1 dB	-2 / -2 dB	-1 / -1 dB	-2 / -2 dB
AGC-O (CK = -21 dB)						
Attack / Release time	3 / 90 ms	3 / 100 ms	3 / 90 ms	3 / 100 ms	3 / 90 ms	3 / 90 ms
<b>Battery</b>						
Type	10	10	312	312	13 / 312	13 / 312
Battery current drain	1.0 mA	1.0 mA	1.0 mA	1.2 mA	1.0 mA	1.2 mA
Battery life (Cell Zinc Air)	~70 h	~70 h	~120 h	~100 h	~220 / ~120 h	~190 / ~100 h
<b>ANSI C63.19</b>						
	M4 / –	M4 / –	M4 / T2	M4 / T2	M4 / T2	M4 / T2
<b>AI – DI<sup>3</sup></b>						
	–	–	4.8	4.8	5.2	5.2

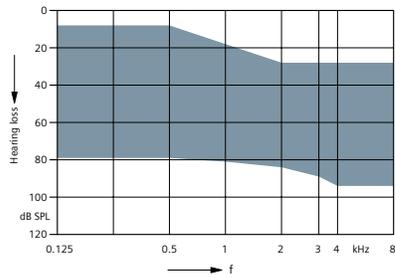
<sup>1</sup>SPLITS=Coupler SPL for an Inductive Telephone Simulator

<sup>2</sup>RSETS=Relative Simulated Equivalent Telephone Sensitivity

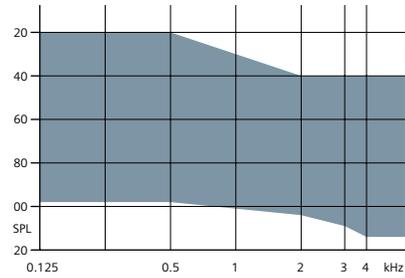
<sup>3</sup>AI-DI = Articulation Index – Weighted Directivity Index

# Nitro 7mi CIC · Basic Data

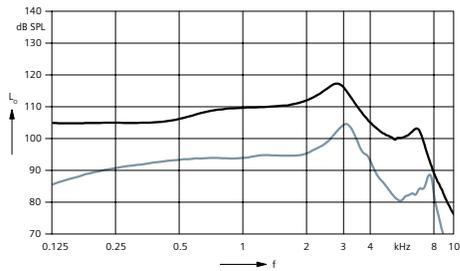
## Fitting Range 118 / 55



## Fitting Range 130 / 71



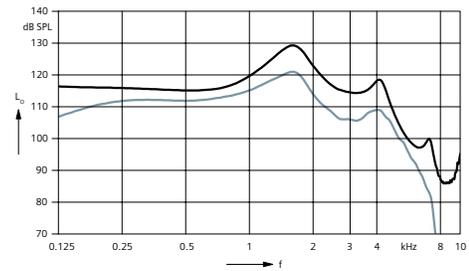
## 2cc coupler



Output Sound  
Pressure Level  
( $L_i = 90$  dB)  
ANSI S3.22-2009

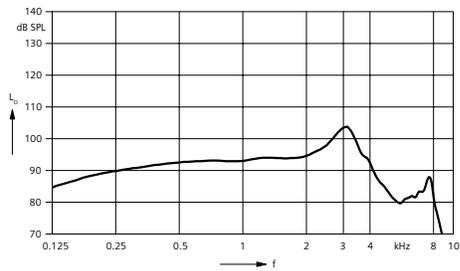
Full on Gain  
( $L_i = 50$  dB)  
ANSI S3.22-2009

## 2cc coupler

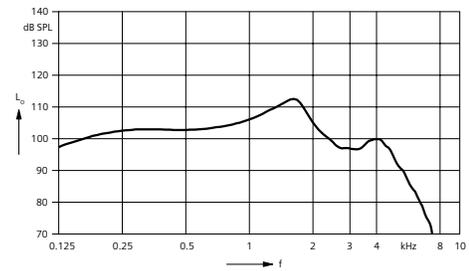


Output Sound  
Pressure Level  
( $L_i = 90$  dB)  
ANSI S3.22-2009

Full on Gain  
( $L_i = 50$  dB)  
ANSI S3.22-2009



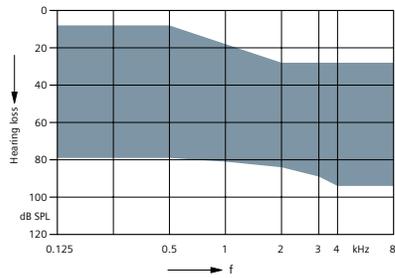
Frequency  
Response  
( $L_i = 60$  dB)  
ANSI S3.22-2009



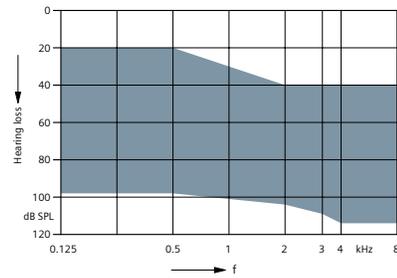
Frequency  
Response  
( $L_i = 60$  dB)  
ANSI S3.22-2009

# Nitro 7mi ITC / HS · Basic Data (continued)

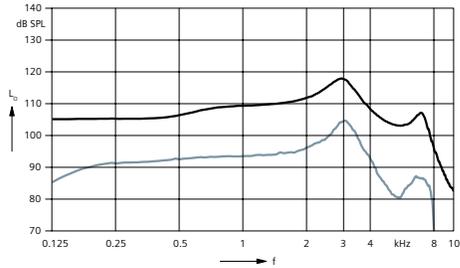
## Fitting Range 118 / 55



## Fitting Range 130 / 71

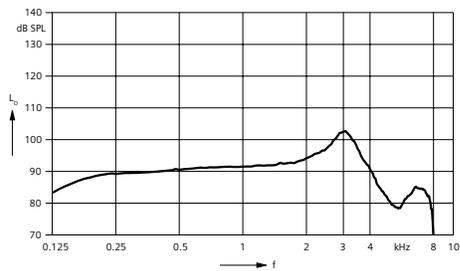


## 2cc coupler



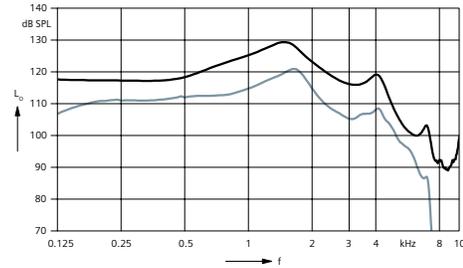
Output Sound Pressure Level  
( $L_i = 90$  dB)  
ANSI S3.22-2009

Full on Gain  
( $L_i = 50$  dB)  
ANSI S3.22-2009



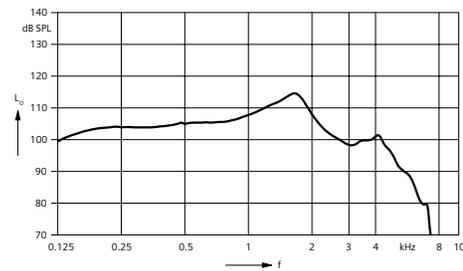
Frequency Response  
( $L_i = 60$  dB)  
ANSI S3.22-2009

## 2cc coupler



Output Sound Pressure Level  
( $L_i = 90$  dB)  
ANSI S3.22-2009

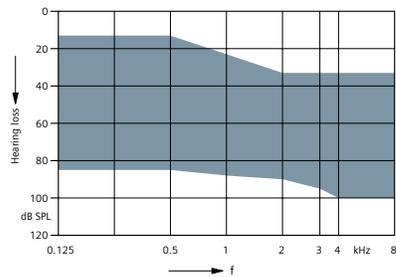
Full on Gain  
( $L_i = 50$  dB)  
ANSI S3.22-2009



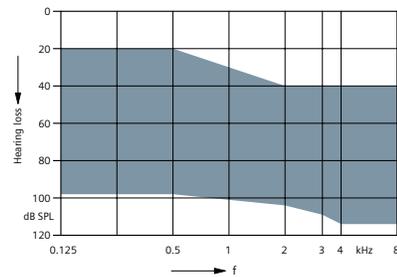
Frequency Response  
( $L_i = 60$  dB)  
ANSI S3.22-2009

# Nitro 7mi ITE · Basic Data (continued)

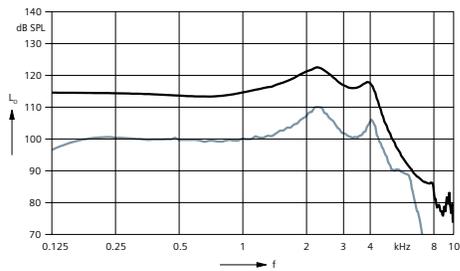
## Fitting Range 123 / 60



## Fitting Range 130 / 71



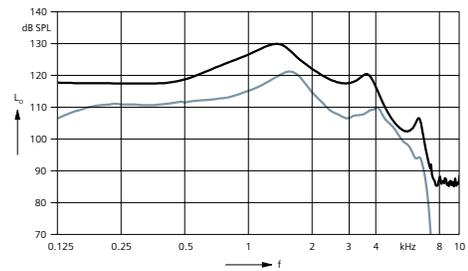
## 2cc coupler



Output Sound  
Pressure Level  
( $L_i = 90$  dB)  
ANSI S3.22-2009

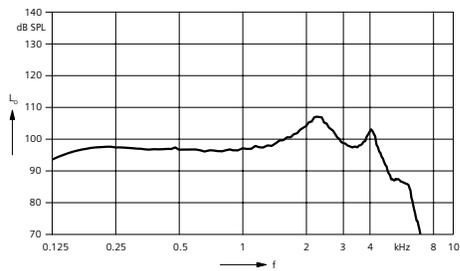
Full on Gain  
( $L_i = 50$  dB)  
ANSI S3.22-2009

## 2cc coupler

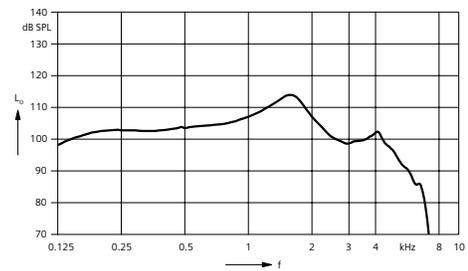


Output Sound  
Pressure Level  
( $L_i = 90$  dB)  
ANSI S3.22-2009

Full on Gain  
( $L_i = 50$  dB)  
ANSI S3.22-2009



Frequency  
Response  
( $L_i = 60$  dB)  
ANSI S3.22-2009



Frequency  
Response  
( $L_i = 60$  dB)  
ANSI S3.22-2009

 **WARNING**

Choking hazard posed by small parts.

- ▶ This instrument is not intended for the fitting of infants, small children and persons of mental incapacity

 **WARNING**

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.

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.

Hearing instruments help many people hear better, but no hearing instrument can solve every hearing problem nor restore normal hearing.

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