# AUDICUS

# The Dia II

# **Brief Description**

- · Open-fit behind-the-ear (BTE) hearing aid
- · Suitable for mild to moderate hearing loss
- 10 channels
- Default universal auto-adaptive program adjusts to environments, amplifying close sounds while eliminating background noise
- Additional environmental and volume programs available for use with classic remote
- 2 directional microphones for detecting speech
- Advanced programming algorithm for amplification of speech/conversation with noise reduction
- Automatic frequency response adjustment in changing acoustic environments
- Adaptive feedback control
- Internal and external nanocoating for moisture resistance, IP 68 rated
- Binaural synchronization of hearing aids for volume and program control

#### Accessories

- Domes variety pack
- Size 312 batteries
- Open-fit tubes
- Complimentary 1-year warranty
- 45-day trial period
- Available in: beige, silver, grey
- Optional classic remote for handheld volume control



Height: 30mm

(1.18 in)

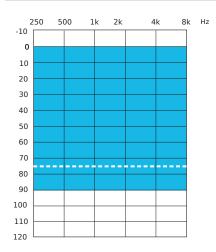
Depth: 11.6mm

(0.46 in)

Width: 7.6mm

(0.30 in)

## **Fitting Range**



## Output/Gain

Slim tube: 122/56

#### **Homologation Approval**

DHI-No. 13.20.12.3296

ANSI 3.22 2014	1/IEC 60118-7 2005 2cc coupler technical data	
	Reference test frequency - IEC 60118-7 (kHz)	1.6
Pout dBSPL 130	OSPL90	
120	Maximum (dB SPL)	122
100 90 80 100 1000 10000	HFA - OSPL90 (dB SPL)	112
	at RTF (dB SPL)	108
Gain dB	Full on gain (input 50 dB SPL)	
50 40 30 20 10 1000 10000 10000	Maximum (dB)	56
	HFA – FOG (dB)	48
	at RTF (dB)	48
	Reference test setting (RTS)	
Pout disPH 120 110 110 110 110 110 110 110 110 110	Frequency range (Hz)	<100-6500
	Reference test gain (dB)	35
	Current drain at RTS (mA)	1.30
	Typical battery life (h)	140
	Equivalent input noise at RTS (dB SPL)	19
	Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)	1.5/1.5/2.0
Pout (8591) 110 100 90 80 70 60 100 1000 10000	Induction coil sensitivity (31.6 mA/m)	
	HFA SPLITS/STS-RSETS (dB SPL/dB)	95/0
	Pout dBSPL	55/5
	Standard: Mic at 70 dB SPL vs induction coil at 100 ma/m	
	Mic Induction Coil	
	80 Hz 1000 10000 Hz	
	Electromagnetic compatibility	
	EMC immunity by ANSI c63.19-2011 EMC, omni/telecoil	M4/T4
IEC 60118-0 OI	ES coupler technical data	1117/11
IEC 60118-0 O	ES coupler technical data	1.6
Pout dBSPL		
Pout dissp.	Reference test frequency - IEC 60118-0 (kHz) OSPL90	
Pout d857L 130 120 110	Reference test frequency - IEC 60118-0 (kHz)  OSPL90  Maximum (dB SPL)	1.6
Pout dBSPL 130 120 110	Reference test frequency - IEC 60118-0 (kHz) OSPL90	1.6
Roud disFit. 130 120 110 100 90 90 91 HH	Reference test frequency - IEC 60118-0 (kHz)  OSPL90  Maximum (dB SPL)	1.6
Poux dissyl 130 120 120 1000 100000 10000 10000 10000 10000 10000 10000 10000 100000 10000 1000000	Reference test frequency - IEC 60118-0 (kHz) OSPL90 Maximum (dB SPL) at RTF (dB SPL)	1.6
Poud dBSPL 130 130 130 130 130 130 130 130 130 130	Reference test frequency - IEC 60118-0 (kHz) OSPL90 Maximum (dB SPL) at RTF (dB SPL) Full on gain (input 50 dB SPL)	1.6 126 116
Poux dissyl 130 120 120 1000 100000 10000 10000 10000 10000 10000 10000 10000 100000 10000 1000000	Reference test frequency - IEC 60118-0 (kHz)  OSPL90  Maximum (dB SPL)  at RTF (dB SPL)  Full on gain (input 50 dB SPL)  Maximum (dB)  at RTF (dB)	1.6 126 116
Paud dBSPC 130 130 130 1000 100000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 100000 10000 10000 10000 10000 10000 100000 100000 100000 1000000	Reference test frequency - IEC 60118-0 (kHz)  OSPL90  Maximum (dB SPL)  at RTF (dB SPL)  Full on gain (input 50 dB SPL)  Maximum (dB)  at RTF (dB)	1.6 126 116
Rout dissr. 130 120 120 110 1000 100000 100000 100000 10000 10000 10000 10000 100000 10000 10000 10000	Reference test frequency - IEC 60118-0 (kHz) OSPL90 Maximum (dB SPL) at RTF (dB SPL)  Full on gain (input 50 dB SPL) Maximum (dB) at RTF (dB)	1.6 126 116
Roud dissrit. 130 120 110 100 1000 1000 10000 10000 10000 10000 10000 10000 10000 10000 10000	Reference test frequency - IEC 60118-0 (kHz)  OSPL90  Maximum (dB SPL)  at RTF (dB SPL)  Full on gain (input 50 dB SPL)  Maximum (dB)  at RTF (dB)  Basic frequency response	1.6 126 116 60 55
Pout dissr. 110 100 1000 10000	Reference test frequency - IEC 60118-0 (kHz)  OSPL90  Maximum (dB SPL)  at RTF (dB SPL)  Full on gain (input 50 dB SPL)  Maximum (dB)  at RTF (dB)  Basic frequency response  Frequency range (DIN 45605) (Hz)	1.6 126 116 60 55
Provided (dSSPI) 130 120 1000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 100000 100000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 1	Reference test frequency - IEC 60118-0 (kHz)  OSPL90  Maximum (dB SPL)  at RTF (dB SPL)  Full on gain (input 50 dB SPL)  Maximum (dB)  at RTF (dB)  Basic frequency response  Frequency range (DIN 45605) (Hz)  Reference test gain (dB)  Current drain at RTG (mA)  Typical battery life (h)	1.6  126 116  60 55  <100-6600 41
Pout dissr. 110 100 1000 10000	Reference test frequency - IEC 60118-0 (kHz)  OSPL90  Maximum (dB SPL)  at RTF (dB SPL)  Full on gain (input 50 dB SPL)  Maximum (dB)  at RTF (dB)  Basic frequency response  Frequency range (DIN 45605) (Hz)  Reference test gain (dB)  Current drain at RTG (mA)	1.6  126 116  60 55  <100-6600 41 1.20
Pout disFr. 120 1000 100	Reference test frequency - IEC 60118-0 (kHz)  OSPL90  Maximum (dB SPL) at RTF (dB SPL)  Full on gain (input 50 dB SPL)  Maximum (dB) at RTF (dB)  Basic frequency response Frequency range (DIN 45605) (Hz) Reference test gain (dB)  Current drain at RTG (mA) Typical battery life (h) Equivalent input noise at RTG (dB SPL)  Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)	1.6  126 116  60 55  <100-6600 41 1.20 150
Pout dissr. 110 100 1000 10000	Reference test frequency - IEC 60118-0 (kHz)  OSPL90  Maximum (dB SPL)  at RTF (dB SPL)  Full on gain (input 50 dB SPL)  Maximum (dB)  at RTF (dB)  Basic frequency response  Frequency range (DIN 45605) (Hz)  Reference test gain (dB)  Current drain at RTG (mA)  Typical battery life (h)  Equivalent input noise at RTG (dB SPL)	1.6  126 116  60 55  <100-6600 41 1.20 150 19
Food dispersion of the control of th	Reference test frequency - IEC 60118-0 (kHz)  OSPL90  Maximum (dB SPL) at RTF (dB SPL)  Full on gain (input 50 dB SPL)  Maximum (dB) at RTF (dB)  Basic frequency response Frequency range (DIN 45605) (Hz) Reference test gain (dB)  Current drain at RTG (mA) Typical battery life (h) Equivalent input noise at RTG (dB SPL)  Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)	1.6  126 116  60 55  <100-6600 41 1.20 150 19
Four GBSPL 120 1000 1000000	Reference test frequency - IEC 60118-0 (kHz)  OSPL90  Maximum (dB SPL)  at RTF (dB SPL)  Full on gain (input 50 dB SPL)  Maximum (dB)  at RTF (dB)  Basic frequency response  Frequency range (DIN 45605) (Hz)  Reference test gain (dB)  Current drain at RTG (mA)  Typical battery life (h)  Equivalent input noise at RTG (dB SPL)  Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)  Induction coil sensitivity	1.6  126 116  60 55  <100-6600 41 1.20 150 19 1.5/1.5/2.0
Pout disFP 1100 1000 100	Reference test frequency - IEC 60118-0 (kHz)  OSPL90  Maximum (dB SPL)  at RTF (dB SPL)  Full on gain (input 50 dB SPL)  Maximum (dB)  at RTF (dB)  Basic frequency response  Frequency range (DIN 45605) (Hz)  Reference test gain (dB)  Current drain at RTG (mA)  Typical battery life (h)  Equivalent input noise at RTG (dB SPL)  Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)  Induction coil sensitivity  at RTF (graph shown for 31.6 mA/m at RTG) (dB SPL)	1.6  126 116  60 55  <100-6600 41 1.20 150 19 1.5/1.5/2.0
Pout disFit 130 1000 100	Reference test frequency - IEC 60118-0 (kHz)  OSPL90  Maximum (dB SPL)  at RTF (dB SPL)  Full on gain (input 50 dB SPL)  Maximum (dB)  at RTF (dB)  Basic frequency response  Frequency range (DIN 45605) (Hz)  Reference test gain (dB)  Current drain at RTG (mA)  Typical battery life (h)  Equivalent input noise at RTG (dB SPL)  Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)  Induction coil sensitivity  at RTF (graph shown for 31.6 mA/m at RTG) (dB SPL)	1.6  126 116  60 55  <100-6600 41 1.20 150 19 1.5/1.5/2.0  101
Pout disPF 130 1000 1000	Reference test frequency - IEC 60118-0 (kHz)  OSPL90  Maximum (dB SPL)  at RTF (dB SPL)  Full on gain (input 50 dB SPL)  Maximum (dB)  at RTF (dB)  Basic frequency response  Frequency range (DIN 45605) (Hz)  Reference test gain (dB)  Current drain at RTG (mA)  Typical battery life (h)  Equivalent input noise at RTG (dB SPL)  Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)  Induction coil sensitivity  at RTF (graph shown for 31.6 mA/m at RTG) (dB SPL)	1.6  126 116  60 55  <100-6600 41 1.20 150 19 1.5/1.5/2.0

#### Legend Test conditions

— Slim tube Battery size: 312; Source: voltage 1.3 V; Tubing: len

Battery size: 312; Source: voltage 1.3 V; Tubing: length 25 mm, inside diameter 1.93 mm

The hearing system is set to HANSATON scout test settings. LLE (Low Level Expansion) is applied at an approximate level of 35 dB SPL.

Domes should never be fit on patients with perforated eardrums, exposed middle ear cavities, or surgically altered ear canals.

In the case of such a condition, we recommend use of a customized earmold. Sound pressure level of these hearing aids exceeds 132 dB SPL.

We reserve the right to change specification data without notice as improvements are introduced. \\

