



# Piccolo Basic - Plus - Speech

PC & iPad CONTROLLED AUDIOMETER



## DESCRIPTION

Piccolo is an audiometer controllable either through any Windows computer or through an iPad.

Piccolo is available in three different models:

- Basic: only PTA – AC
- Plus: only PTA – AC / BC
- Speech: PTA & Speech – AC / BC

When controlled through the computer using Inventis Maestro software, Piccolo is connected to it via USB. To control it through the iPad via Bluetooth 4 connection, Piccolo needs to be purchased with the *Aero* option.

## CLASSIFICATION

- Basic: IEC 60645-1 / ANSI S3.6: Type 4
- Plus: IEC 60645-1 / ANSI S3.6: Type 3
- Speech: IEC 60645-1 Type 3B, ANSI S3.6 Type 3C

## AVAILABLE SIGNALS

- Stimulus: pure tone, warble tone
- Masking: NBN, WN, SN (Piccolo Speech only)

Only Piccolo Speech:

- 2 external inputs for speech audiometry
- MIC input for live speech audiometry

## SIGNALS SPECIFICATION

- Attenuator step: 1 dB, 3 dB, 5 dB
- Presentation: Continuous, Pulsed (0.5, 1 and 2 Hz)
- Warble: 5 Hz sine wave modulating signal

## AVAILABLE OUTPUTS AND TRANSDUCERS

- AC: TDH-39, DD45, ER-3 insert earphones
- BC: B-71 bone vibrator (Piccolo Plus / Speech only)

## AVAILABLE TESTS

- Pure Tone audiometry
- Auto threshold (modified Hughson-Westlake)
- Speech audiometry (Piccolo Speech only)
- QuickSIN™ (optional for Piccolo Speech only)
- Master Hearing Aid (Piccolo Speech only)

## PURE TONE: FREQUENCIES AND MAXIMUM LEVELS (dB HL)\*

Freq. (Hz)	AC TDH-39 DD45	AC ER-3	AC ER-5**	BC
125	80	90	90	-
250	100	105	100	45
500	110	110	110	65
750	115	115	120	70
1.000	120	120	120	75
1.500	120	120	120	80
2.000	120	120	115	80
3.000	120	120	115	75
4.000	120	110	110	75
6.000	105	95	100	55
8.000	95	90	90	50

[\*]The maximum intensities are obtainable only if the audiometer is powered with the mains adapter.

[\*\*] ER-5 no more available for purchasing but supported

## SPEECH AUDIOMETRY: MAXIMUM LEVELS (dB HL)\*

AC TDH-39 DD45	AC ER-3	AC ER-5**	BC
100	100	100	55

[\*] Only available for the Speech version.

[\*\*] ER-5 no more available for purchasing but supported

## PATIENT – OPERATOR COMMUNICATION

- Talk over: external microphone included
- Patient response trigger

## CALIBRATION

- Validity: 12 months
- All the parameters set through the device software

## COMPUTER INTERFACE

- Connection: USB (driverless)
- Compatible software: Inventis Maestro

## MINIMUM COMPUTER REQUIREMENTS

- Processor: Intel® Core 2 Duo, 1.6 GHz
- RAM: 4 GB
- Operative system: Windows 7-8-10, 32 or 64 bits

## INTERFACING WITH THE iPad

- Through Bluetooth 4 connection (needs *Aero* option).
- Requires iPad 3 or successive
- Dedicated app freely downloadable from the Apple App Store

## POWER SUPPLY

- Maximum consumption: 8 Watts
- Power supply: 6V, 1.67A cont., through an external medical grade 100-240 Vac 50/60 Hz power supply

## MECHANICS

- Size (WxDxH): 16 x 16 x 3 cm / 6.3 x 6.3 x 1.2 in
- Weight: 300g / 10.6 oz

## FREIGHT PACKING

- Size (WxDxH): 40 x 30 x 18 cm / 15.8 x 11.8 x 7.1 in
- Gross weight: 2.7 kg / 5.9 lbs

## APPLICABLE STANDARDS

- Calibration: ISO 389-1 (TDH 39 and DD45), ISO 389-2 (ER-3 and ER-5), ISO 389-3 (B71)
- Electrical safety: IEC 60601-1, Class I type B
- EMC: IEC 60601-1-2

## CE CERTIFICATE

- 93/42/EEC classification: Class IIa
- Classification rule (Annex IX, 93/42/EEC): 10
- Notified body: TÜV SÜD Product Service GmbH (0123)

**PRODUCT CODES**

Code 10327 - Piccolo model Basic  
Code 10328 - Piccolo model Basic Aero  
Code 10329 - Piccolo model Plus  
Code 10330 - Piccolo model Plus Aero  
Code 10331 - Piccolo model Speech  
Code 10332 - Piccolo model Speech Aero

**INCLUDED PARTS**

- DD45 or TDH-39 supra-aural headphones
- B71 bone vibrator (Piccolo Plus / Speech only)
- Patient response switch
- Clip-on microphone for talk-over
- Medical grade power supply
- USB connection cable
- Jack 3.5mm connection cable (Piccolo Speech only)
- Caring bag
- User manual
- Inventis Software Suite

**OPTIONAL ACCESSORIES (with order code)**

- 10833: ER-3C insert earphones
- 10179: Amplivox Audiocups noise excluding enclosures for TDH-39 / DD45
- 10533: QuickSIN™ test license

Piccolo is developed by:

**INVENTIS s.r.l.**

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