



# 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: EN 60645-1 / ANSI S3.6: Type 4  
 Plus / Speech: EN 60645-1 / ANSI S3.6: Type 3

## 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: 1dB, 3dB, 5 dB  
 Presentation: Continuous, Pulsed (0.5, 1 and 2 Hz)  
 Warble: 5 Hz sin wave modulating signal

## AVAILABLE OUTPUTS AND TRANSDUCERS

AC: TDH-39, ER-3 / ER-5 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.

## 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.

## 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

Pure tone audiometry: EN 60645-1, Type 3 (Piccolo Plus / Speech)  
 EN 60645-1, Type 4 (Piccolo Basic)  
 Calibration: EN ISO 389-1 (TDH 39), EN ISO 389-2 (ER-3 and ER-5),  
 EN ISO 389-3 (B71), data from the manufacturer (DD45)  
 Electrical safety: EN 60601-1, Class I type B  
 EMC: EN 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 patient-to-operator communication
- 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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