



# 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 Daisy or the dedicated Noah module), 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: 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-3A / ER-5A 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)

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

| Freq. (Hz) | AC TDH-39 DD45 | AC ER-3A | AC ER-5A | 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-3A | AC ER-5A | 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 Daisy with Maestro module  
 - Noah with “Maestro for Noah” module

## 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: 9 Watts  
 Power supply: 6V, 2A 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-3A and ER-5A), EN ISO 389-3 (B71), data from the manufacturer (DD45)  
 Electrical safety: EN 60601-1, Class I type BF  
 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)  
 Number of CE certificate: G1 12 09 65346 006

## 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**

- 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)
- User manual
- Inventis Software Suite CD

**OPTIONAL ACCESSORIES (with order code)**

- 10166: ER-3A insert earphones
- 10172: ER-5A insert earphones
- 10179: Amplivox Audiocups noise excluding enclosures for TDH-39 / DD45
- 10533: QuickSIN™ test license

Piccolo is developed by:

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